STR-W77

SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model
Tourist Model

STR-W77 is RECEIVER section in MHC-W77AV.

SPECIFICATIONS

With 6 ohm loads, both channels driven, from 40–20, 000 Hz; rated 100 watts per channel minimum RMS power, with no more than 0.9 % total harmonic distortion from 250 milliwatts to rated output. (US model)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range
EXCEPT Tourist model :
87.5–108.0 MHz
Tourist model :
76.0–108.0 MHz

Antenna: FM lead antenna

Antenna terminals: 75 ohm, unbalanced

Intermediate frequency: 10.7 MHz

AM tuner section

Tuning range
US, Canadian, E2, Argentine, Australian, Thailand model :
AM : 530–1,710kHz (10kHz)
531–1,710kHz (9kHz)
E3, Saudi Arabia, Hong Kong, Singapore, Malaysia, Tourist model :
MW : 531–1,602kHz (9kHz)
SW : 5.95–17.90MHz (9kHz)

Antenna: AM loop antenna, External antenna terminals

Intermediate frequency: 450 kHz

Amplifier section

Continuous RMS power output

US model :
(FRONT)
100 W + 100 W
(6 ohms at 40–20,000 Hz, 0.9% THD)
120 W + 120 W
(6 ohms at 1 kHz, 5% THD)
(CENTER)
30 W (8 ohms at 1 kHz, 5% THD)
(REAR)
15 W + 15 W
(8 ohms at 1 kHz, 5% THD)

EXCEPT US model :
(FRONT)
120 W + 120 W
(6 ohms at 1 kHz, 5% THD)
(CENTER)
30 W (8 ohms at 1 kHz, 5% THD)
(REAR)
15 W + 15 W
(8 ohms at 1 kHz, 5% THD)

Inputs
VIDEO/MD IN (phono jacks) :
voltage 250 mV/450 mV
impedance 47 kilohms
MIX MIC (phono jacks) :
sensitivity 1 mV/450 mV
impedance 10 kilohms

Outputs
VIDEO/MD OUT (phono jacks) :
voltage 250 mV
impedance 1 kilohms
PHONES (stereo phono jacks) :
accepts headphones of 8 ohms or more
FRONT SPEAKER :
accepts impedance of 6 to 16 ohms
CENTER SPEAKER :
accepts impedance of 8 to 16 ohms
REAR SPEAKER :
accepts impedance of 8 to 16 ohms
SUPER WOOFER :
voltage 250 mV impedance 1 kilohms

– Continued on page 2 –

MICROFILM

FM STEREO/FM-AM RECEIVER

SONY®

General

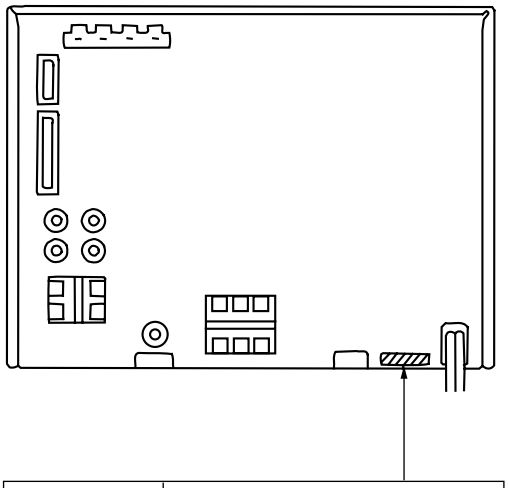
Power requirements	US, Canadian model : 120 V AC, 60 Hz Australian model : 240 V AC, 50/60Hz Thailand model : 220 V AC, 50/60Hz Other models : 110-120 V/220-240 V AC adjustable, 50/60 Hz
Power consumption	EXCEPT Canadian model : 260 watts Canadian model : 350 VA
Dimensions	Approx. 280 x 205 x 345 mm (11x $8^{1}/_{16}$ x $13^{9}/_{16}$ in.) (w/h/d)
Mass	Approx. 6.4 kg (14 lb 2 oz)

Design and specifications are subject to change without notice.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

MODEL INDENTIFICATION – BACK PANEL –



Parts No.	Model
4-980-659-0☐	US
4-980-659-1☐	Canadian
4-980-659-2☐	E, Saudi Arabia, Argentine, Torist
4-980-659-3☐	Australian
4-980-659-4☐	Hong Kong
4-980-659-5☐	Malaysia, Singapore
4-980-659-7☐	Thailand

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer :
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5mA (500 microampers).
Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

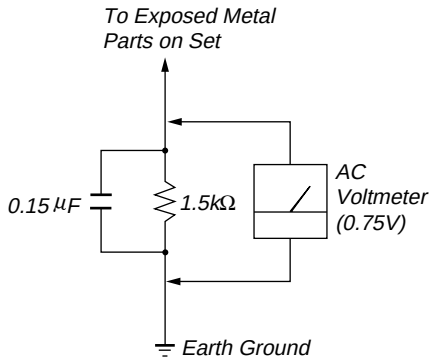


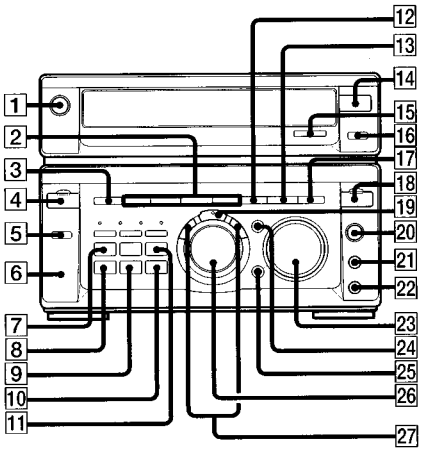
Fig. A. Using an AC voltmeter to check AC leakage.

SECTION 1
GENERAL

This section is extracted from instruction manual.

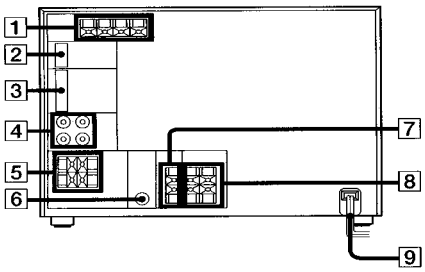
INDEX TO PARTS AND CONTROLS

Front Panel



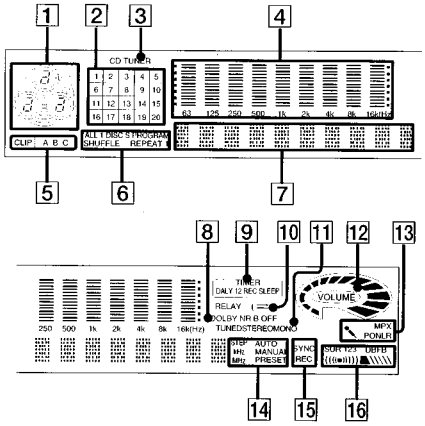
1 SYSTEM POWER button
2 MENU 1-4 buttons
3 EFFECT ON/OFF button
4 TIMER button
5 SLEEP button
6 KARAOKE PON/MPX button
7 TUNER MEMORY button
8 CLOCK SET button
9 TIMER SET button
10 TIMER SELECT button
11 TUNING MODE button
12 P FILE button
13 MEMORY button
14 TUNER/BAND button
15 DOLBY PRO LOGIC button
16 DISPLAY button
17 DSP button
18 FUNCTION button
19 ENTER/NEXT button
20 MIC LEVEL knob
21 MIX MIC jack
22 PHONES jack
23 VOLUME knob
24 DBFB button
25 GROOVE button
26 JOG dial
27 FREQUENCY +/– buttons

Rear panel



1 ANTENNA terminals
2 SYSTEM CONTROL 2 terminal
3 SYSTEM CONTROL 1 terminal
4 VIDEO/MD IN/OUT jacks
5 FRONT SPEAKER connectors
6 SUPER WOOFER jack
7 CENTER SPEAKER connectors
8 REAR SPEAKER connectors
9 AC power cord

Display Window



1 Disc tray indicator
2 Music calendar
3 CD/TUNER indicator
4 Graphic Equalizer indication
5 CLIP indicators
6 CD playback indicators
7 Multi-display
8 DOLBY NR indicator
9 Timer indicators
10 Direction mode indicators
11 Tuning indicators
12 VOLUME indicators
13 Karaoke PON/MPX indicators
14 Tuner indicators
15 SYNC REC indicator
16 DBFB/SUR indicators

SECTION 2
TEST MODE

DISPLAY / KEY TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 1 button with the following 4 seconds to set the Test Mode.

1. The message “W3 NA (destination) ” appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB. OUT).
2. Press any key to rotate JOG and all FL indicators light up.
   When you rotate JOG at this point, the display changes as follows.
   ← all FL indicators on ←→ FL pattern 1 ←→ FL pattern 2 →
   The changes and all LED indicators light up.
3. Again press any key to set the key count check. The following display appears.
   0 0 0
   The numbers in order from left to right show ; the number of keys pressed, the JOG count (1 click per 4 counts), and the VOL count. (1 cycle is a count of 96.)
4. Press the Power button to reset to the factory settings.

AMP TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 2 button with the following 4 seconds to set the Test Mode.

1. The message “AMP TEST” appears on the screen. Press the MENU button to call up the Equalizer Curve for the Amp Test. However when the function is set to the tuner, use the MENU button to call up each tuner preset from 1 through 5.
2. Press the Power button to reset to the factory settings.

MICROCOMPUTER COLD START

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 3 button with the following 4 seconds to reset the microcomputer to the factory settings.

SUBCRYSTAL TEST MODE

Press the ENTER/NEXT and FUNCTION buttons simultaneously.
Then press the MENU 4 button with the following 4 seconds.
The message “XTAL TEST ” appears on the screen and a 32 cycle square wave of the subcrystal oscillator is output from Pin 24 (AUB.OUT).
In addition, a square wave of the same frequency as the subcrystal oscillator, is output from 4PIN (POWER. ON/OFF).
Press the Power button to reset to the factory settings.

SECTION 3
ELECTRICAL ADJUSTMENTS

Precautions in Repairing

Note. 1 : The adjustment should be performed in the publication. (MW ⟶ FM ⟶ SW)

Note. 2 : As a front-end (FE1) is difficult to repair if faulty, replace it with new one.

●Abbreviation

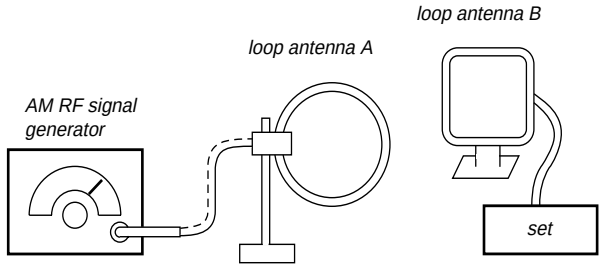
AUS	: Australian	AR	: Argentine
EA	: Saudi Arabia	HK	: Hong Kong
SP	: Singapore	JE	: Tourist
MY	: Malaysia	TH	: Thailand
CND	: Canadian		
E2	: Tuner sections SW BAND do not exist.		
E3	: Tuner sections SW BAND exist.		

MW SECTION

MW Tuned Indication Lighting Level

Setting :

Band : MW



Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 55dBμ/m (0.6mV/m)
2. Tune the set to 999kHz or 1,050kHz.
3. Adjust RV41 so that the TUNED indicatior goes on.

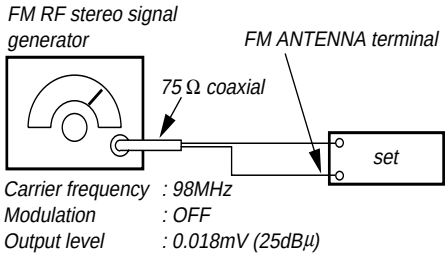
FM SECTION

FM Tuned Indication Lighting Level

Note : Always make the tuning level adjustment first. (Since it affects the FM tuning level.)

Setting :

Band : FW



Procedure :

1. Tune the set to 98MHz.
2. Adjust RV42 so that the TUNED indicator goes on.

SW Control Voltage Adjustment (Frequency Coverge Adjustment) (E3, EA, MY, SP, HK, JE model)

Setting :

Band : SW

Procedure :

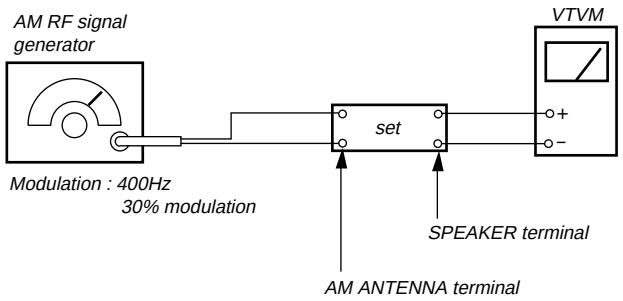
1. Connect digital Voltmeter to diode D1 center lead and ground.
2. Adjust for a following value reading on digital Voltmeter.

	Set frequency	Adjustment part	Reading on digital voltmeter
SW	5.95MHz	T2	1.2Vdc
	17.9MHz	CV2	8.5Vdc

SW Tracking Adjustment (E3, EA, MY, SP, HK, JE model)

Setting :

Band : SW



Procedure :

Adjust for maximum reading on VTVM.

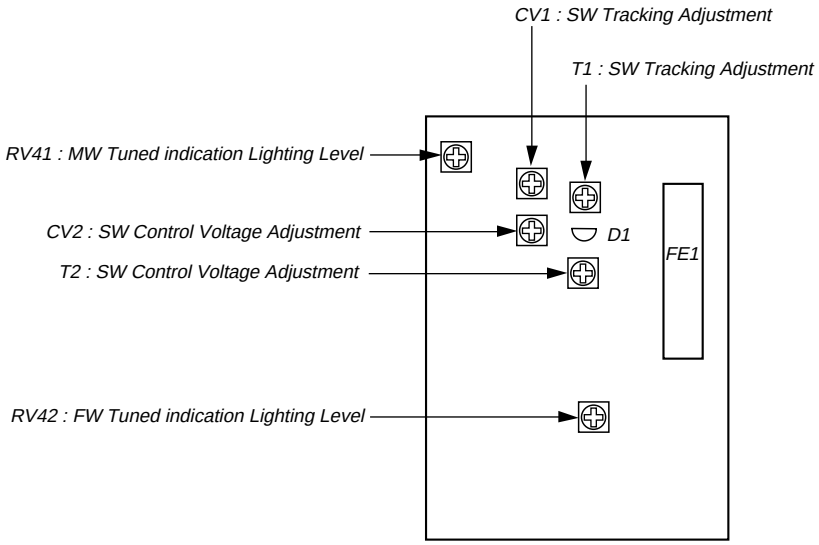
	Set frequency	Adjustment part
SW	7MHz	T1
	17MHz	CV1

● Repeat the procedures is each adjustment several times, and the frequency coverage and tracking adjustment should be finally done by the trimmer capacitors.

Adjustment Location : TCB board

Adjustment Location

[TCB BOARD] – Component side –


CV1 : SW Tracking Adjustment
T1 : SW Tracking Adjustment
RV41 : MW Tuned indication Lighting Level
CV2 : SW Control Voltage Adjustment
T2 : SW Control Voltage Adjustment
D1
FE1
RV42 : FW Tuned indication Lighting Level

SECTION 4
EXPLANATION OF IC TERMINALS

IC501 ASD0205GF-015-3BA (SYSTEM CONTOROL)

Pin No.	Pin name	I/O	Description
1	VDD	–	Power supply.
2	CLK OUT	O	Direct output for communications with HCD-W55.
3	RDY IN	I/O	Direct input / output for communications with HCD-W55.
4	POWER ON / OFF	O	L : Relay ON
5	MUTE	O	Mute output to transistor. L : Mute ON
6	PROLOGIC LATCH	O	Latch output to IC3001 (LA2785).
7	VOL. LATCH	O	Latch output to IC2002 (TC9210P).
8	427LAT	O	Latch output to IC105 (M62427FP).
9	LED LAT	O	Latch output to IC504 (M66313FP-200C).
10	RESET	I	Reset terminal.
11	X2	–	Oscillator connection terminal. (5MHz)
12	X1	–	Oscillator connection terminal. (5MHz)
13	IC	–	Ground connection.
14	XT2	–	Oscillator connection terminal. (32MHz)
15	XT1	–	Oscillator connection terminal. (32MHz)
16	VDD	–	Power supply.
17	BACK UP	I	AC Power supply OFF.
18	COM CLK	O	Transfer clock output serial data.
19	COM DATA	O	Serial data output.
20	ST DATA IN	I	Serial data input from IC 1.
21	ST CE	O	Chip enable output to IC 1.
22	STEREO	I	Stereo signal input.
23	TUNED	I	Tuned signal input.
24	AUB OUT	O	Audio bus output.
25	AVSS	–	Ground.
26	PROLOGIC. RY	O	Rear and center speaker relay ON/OFF control.
27	SUFFIX	I	Input for model select.
28	SPE	I	Spectrum analyzer signal input.
29	SPE	I	Spectrum analyzer signal input.
30	SPE	I	Spectrum analyzer signal input.
31	SPE	I	Spectrum analyzer signal input.
32	KYE 1	I	Key data input (A/D converter).
33	KYE 2	I	Key data input (A/D converter).
34	AVDD	–	Power supply for anlog.
35	AV REF	–	Reference voltage for A/D converter.

<table>
<tr><th>Pin No.</th><th>Pin name</th><th>I/O</th><th>Description</th></tr>
<tr><td>36</td><td>VOL IN A</td><td>I</td><td>Volume encoder input.</td></tr>
<tr><td>37</td><td>JOG IN A</td><td>I</td><td>JOG dial encoder input.</td></tr>
<tr><td>38</td><td>RDS CLK</td><td>I</td><td>Not uset.</td></tr>
<tr><td>39</td><td>AUB IN</td><td>I</td><td>Audio bus output.</td></tr>
<tr><td>40</td><td>VSS</td><td>–</td><td>Ground.</td></tr>
<tr><td>41</td><td>RDS DATA</td><td>I</td><td>Not uset.</td></tr>
<tr><td>42</td><td>D 3</td><td>I/O</td><td>System control data signal input / output.</td></tr>
<tr><td>43</td><td>D 2</td><td>I/O</td><td>System control data signal input / output.</td></tr>
<tr><td>44</td><td>D 1</td><td>I/O</td><td>System control data signal input / output.</td></tr>
<tr><td>45</td><td>D 0</td><td>I/O</td><td>System control data signal input / output.</td></tr>
<tr><td>46</td><td>VDD</td><td>–</td><td>Power supply +5V.</td></tr>
<tr><td>47</td><td>SIRCS IN</td><td>I</td><td>SIRCS signal input.</td></tr>
<tr><td>48</td><td>VOL IN B</td><td>I</td><td>Volume encoder input.</td></tr>
<tr><td>49</td><td>JOG IN B</td><td>I</td><td>JOG dial encoder input.</td></tr>
<tr><td>50</td><td>ST FM</td><td>O</td><td rowspan="2">BAND select output.
<table>
<tr><th></th><th>FM Receiving</th><th>AM Receiving</th><th>MUTE</th></tr>
<tr><td>⑤⓪ pin</td><td>H</td><td>L</td><td>H</td></tr>
<tr><td>⑤① pin</td><td>L</td><td>L</td><td>H</td></tr>
</table></td></tr>
<tr><td>51</td><td>ST MUTE</td><td>O</td></tr>
<tr><td>52</td><td>EMG OUT</td><td>O</td><td>Urgent signal standby output. “H” : standby</td></tr>
<tr><td>53</td><td>EMG IN</td><td>I</td><td>Urgent signal start input. “H” → “L” : start</td></tr>
<tr><td>57 – 78</td><td>P 32 – P 8</td><td>O</td><td>Segment output to FL501.</td></tr>
<tr><td>79</td><td>VG</td><td>–</td><td>Power supply for fluorescent indicator tube.</td></tr>
<tr><td>80 – 86</td><td>P 7 – P 1</td><td>O</td><td>Segment output to FL501.</td></tr>
<tr><td>87 – 100</td><td>14 G – 1 G</td><td>O</td><td>Grid output for FL501.</td></tr>
</table>

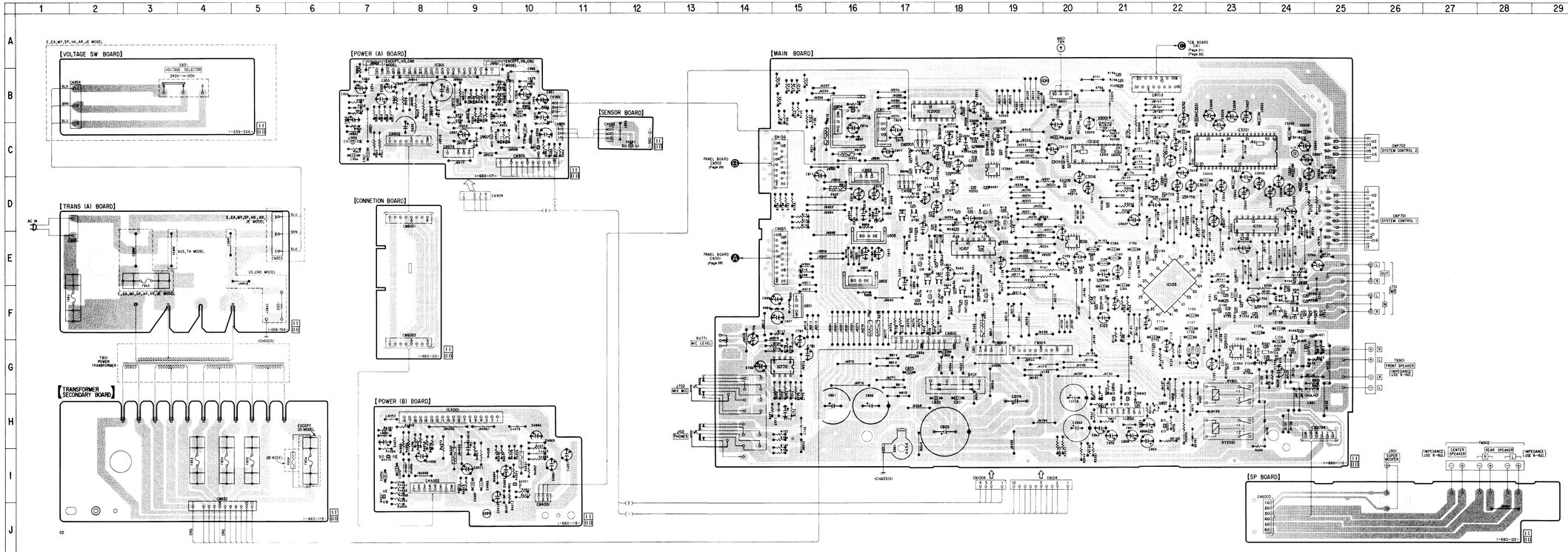
5-1. PRINTED WIRING BOARDS –MAIN SECTION–

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	D-18	IC1001	G-23
D603	F-18	IC2001	C-19
D604	E-18	IC2002	B-17
D605	E-17	IC3000	C-20
D606	F-17	IC3001	C-23
D610	G-24	IC4001	H-9
D670	G-24		
D690	H-24		
D701	B-20	Q111	D-18
D702	B-20	Q161	D-19
		Q190	D-17
D801	G-18	Q191	D-18
D804	F-15	Q192	D-17
D805	E-16		
D807	C-16	Q601	E-18
D808	D-16	Q602	F-18
		Q603	E-17
D809	F-17	Q604	F-18
D810	F-18	Q605	E-17
D811	G-17		
D812	G-17	Q606	F-17
D813	H-17	Q701	F-24
		Q702	F-24
D814	G-17	Q751	F-24
D821	H-22	Q752	F-24
D824	C-15		
D840	H-21	Q801	F-15
D841	H-21	Q802	E-16
		Q804	B-16
D852	F-19	Q805	E-16
D903	B-9	Q810	H-21
D953	B-7		
D1021	F-24	Q811	F-18
D2001	H-22	Q856	H-21
		Q857	H-22
D4001	I-10	Q901	C-10
		Q902	C-9
IC101	E-20	Q952	C-7
IC105	E-22	Q1010	G-24
IC107	E-18	Q2001	H-22
IC651	C-12	Q2010	C-18
IC701	D-23	Q2051	C-17
IC770	G-15	Q4001	I-10
IC801	B-17	Q4010	I-7
IC802	C-16	Q4051	I-7
IC850	H-21	Q8004	B-16
IC901	B-8		

Note:

- ○— : parts extracted from the component side.
- ▪ : Pattern on the side which is seen.
- Abbreviation
  - CND : Canadian
  - AUS : Australian
  - EA : Saudi Arabia
  - HK : Hong Kong
  - SP : Singapore
  - MY : Malaysia
  - JE : Tourist
  - AR : Argentine
  - TH : Thailand
  - E2 : Tuner sections SW BAND do not exist.
  - E3 : Tuner sections SW BAND exist.



Note :
- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4W or less unless otherwise specified.
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.

Note : The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Note :
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Note :
Les composants identifiés parums marque ⚠ osont critiques pour la sécurité. Ne les remplacer que par unepiece portant le numéro spécifié.

- B+ Line
- B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : FM : PB : CD
  : REC

- Abbreviation
  CND : Canadian
  AUS : Australian
  EA : Saudi Arabia
  HK : Hong Kong
  SP : Singapore
  MY : Malaysia
  JE : Tourist
  AR : Argentine
  TH : Thailand
  E2 : Tuner sections SW BAND do not exist.
  E3 : Tuner sections SW BAND exist.

● WAVEFORM – MAIN SECTION –

① 7.6Vp-p, 8MHz, IC3000 ⑳

5-2. SCHEMATIC DIAGRAM –MAIN SECTION–

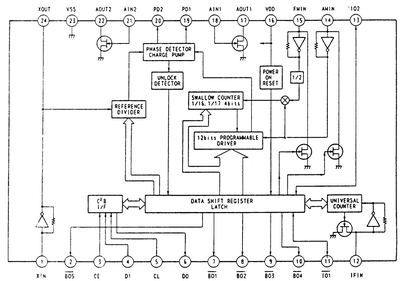
● Refer to page 22 for IC Block Diagrams.

【MAIN BOARD】
【SP BOARD】
【POWER (A) BOARD】
【SENSOR BOARD】
【CONNECTION BOARD】
【POWER (B) BOARD】
【TRANSFORMER SECONDARY BOARD】
【TRANS (A) BOARD】
【VOLTAGE SW BOARD】

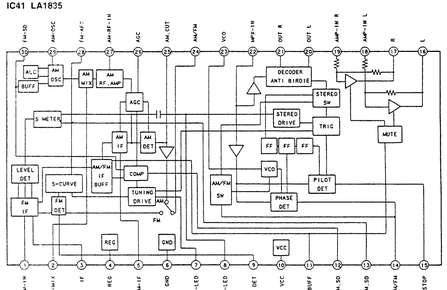
IC101 IC105 IC107 IC701 IC770 IC801 IC802 IC850 IC901 IC1001 IC2001 IC2002 IC3000 IC3001 IC4001 IC651

● IC BLOCK DIAGRAMS –TCB SECTION–

IC21 LC72130

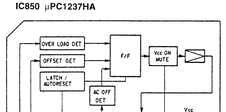


IC41 LA1835

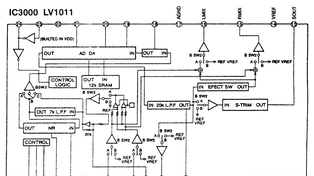


–MAIN SECTION–

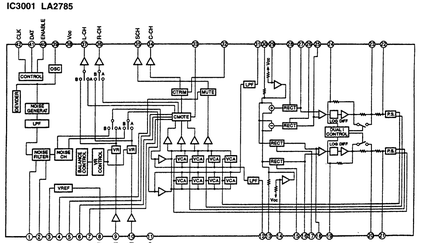
IC850 μPC1237HA



IC3000 LV1011

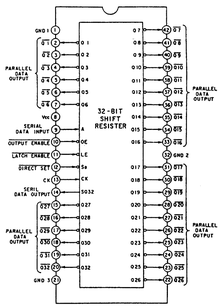


IC3001 LA2785

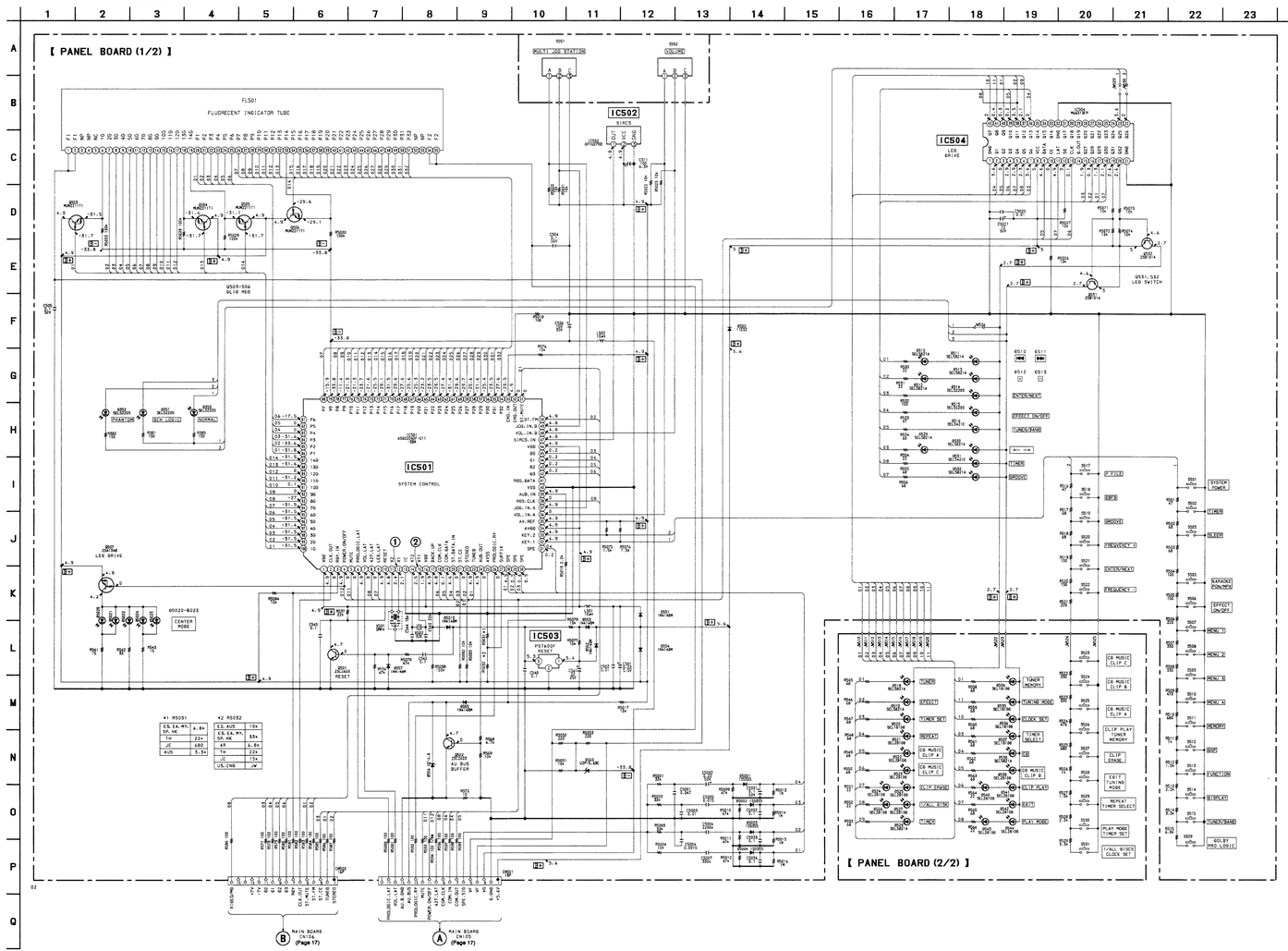


– PANEL SECTION –

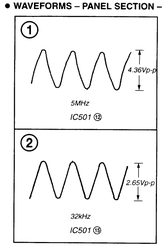
IC504 M66313FP-200C



5-3. SCHEMATIC DIAGRAM –PANEL SECTION–

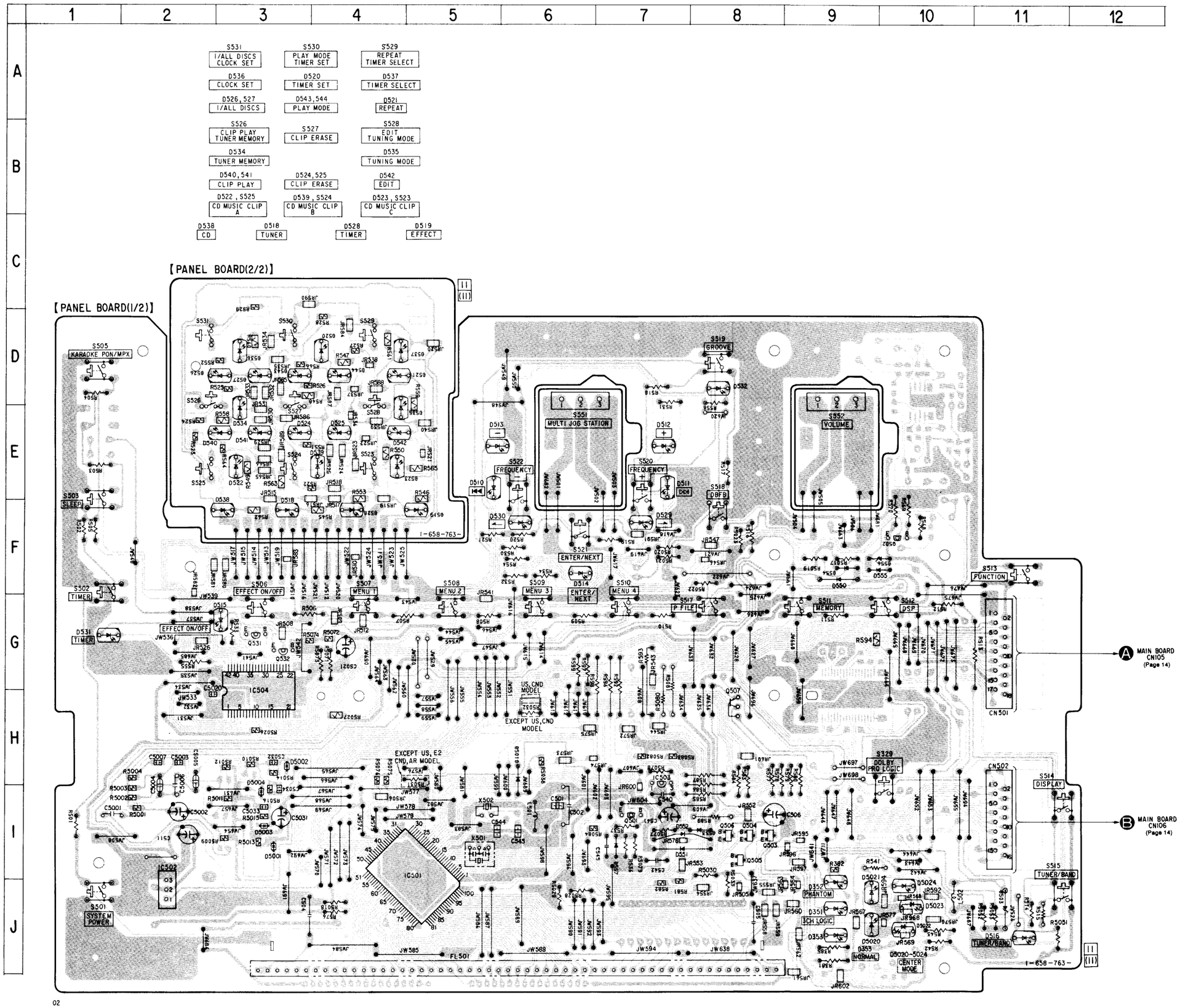


● WAVEFORMS – PANEL SECTION –



Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantaliums.
- All resistors are in Ω and ¼W or less unless otherwise specified.
- △ : internal component.
- **B+** : B+ Line
- **B−** : B− Line
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Abbreviation
  CND : Canadian
  AUS : Australian
  EA : Saudi Arabia
  HK : Hong Kong
  SP : Singapore
  MY : Malaysia
  JE : Tourist
  AR : Argentine
  TH : Thailand
  E2 : Tuner sections SW BAND do not exist.
  E3 : Tuner sections SW BAND exist.



● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D351	J-9	D543	D-3
D352	J-9	D544	D-4
D353	J-9	D550	F-9
D503	J11	D551	I-7
D510	E-5	D552	I-7
D511	E-7	D553	I-8
D512	E-7	D554	F-9
D513	E-5	D555	F-9
D514	F-6	D556	F-9
D515	G-3	D557	I-7
D516	J-11	D5001	I-3
D518	F-3	D5002	H-3
D519	F-5	D5003	I-3
D520	D-4	D5004	I-3
D521	D-4	D5010	H-6
D522	E-3	D5020	J-9
D523	E-4	D5021	J-9
D524	E-3	D5022	J-10
D525	E-4	D5023	J-10
D526	D-3	D5024	J-10
D527	D-3		
D528	F-4	IC501	I-5
D529	F-7	IC502	I-2
D530	F-6	IC503	H-7
D531	G-1	IC504	G-3
D532	D-8		
D534	E-3	Q501	I-7
D535	E-4	Q502	F-10
D536	D-3	Q503	I-8
D537	D-4	Q504	I-8
		Q505	I-8
D538	F-3		
D539	E-4	Q506	I-8
D540	E-3	Q507	H-8
D541	E-3	Q531	G-3
D542	E-4	Q532	G-3

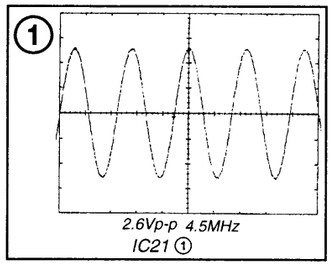
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - CND : Canadian
  - AUS : Australian
  - EA : Saudi Arabia
  - HK : Hong Kong
  - SP : Singapore
  - MY : Malaysia
  - JE : Tourist
  - AR : Argentine
  - TH : Thailand
  - E2 : Tuner sections SW BAND do not exist.
  - E3 : Tuner sections SW BAND exist.

5-5. SCHEMATIC DIAGRAM –TCB SECTION– (US, CND, E2, AR, AUS, TH model)

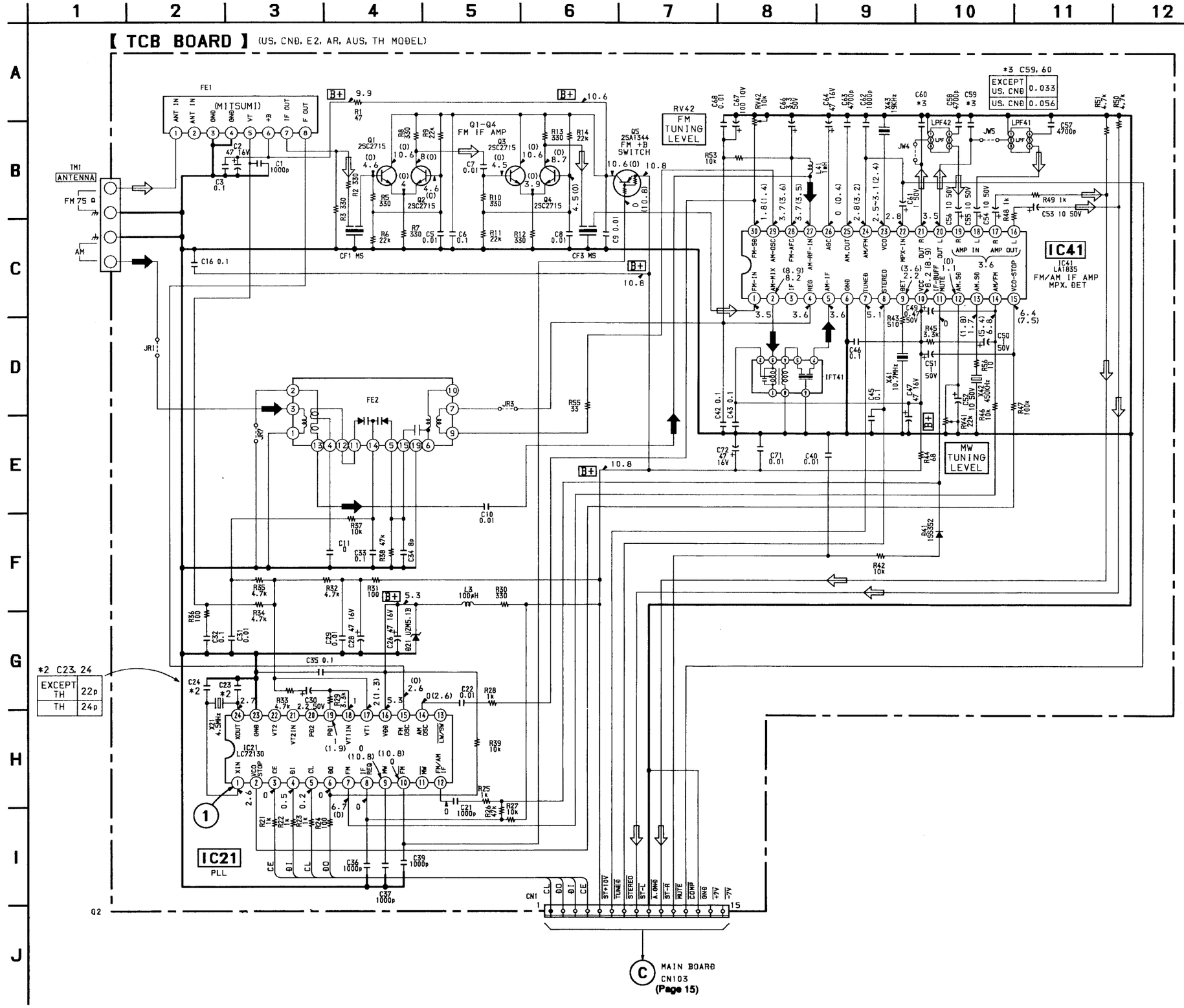
● Refer to page 22 for IC Block Diagrams.

● WAVEFORM – TCB SECTION –

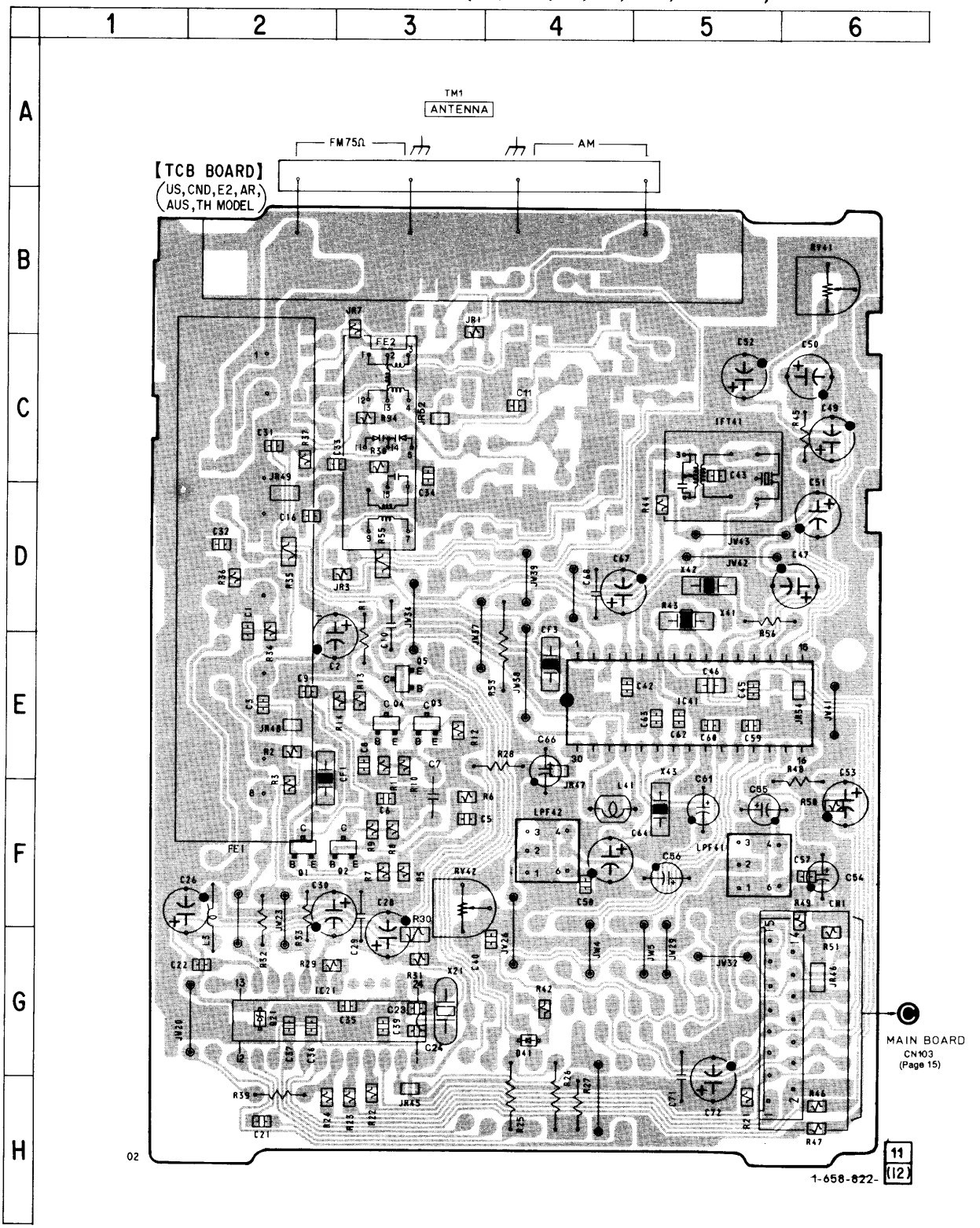


Note :

- All capacitors are in µF unless otherwise noted. pF: µµF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Δ : internal component.
- B+ : B+ Line
- [ ] : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ➡ : AM
- Abbreviation
  CND : Canadian
  AUS : Australian
  AR : Argentine
  TH : Thailand
  E2 : Tuner sections SW BAND do not exist.



5-6. PRINTED WIRING BOARDS –TCB SECTION– (US, CND, E2, AR, AUS, TH model)



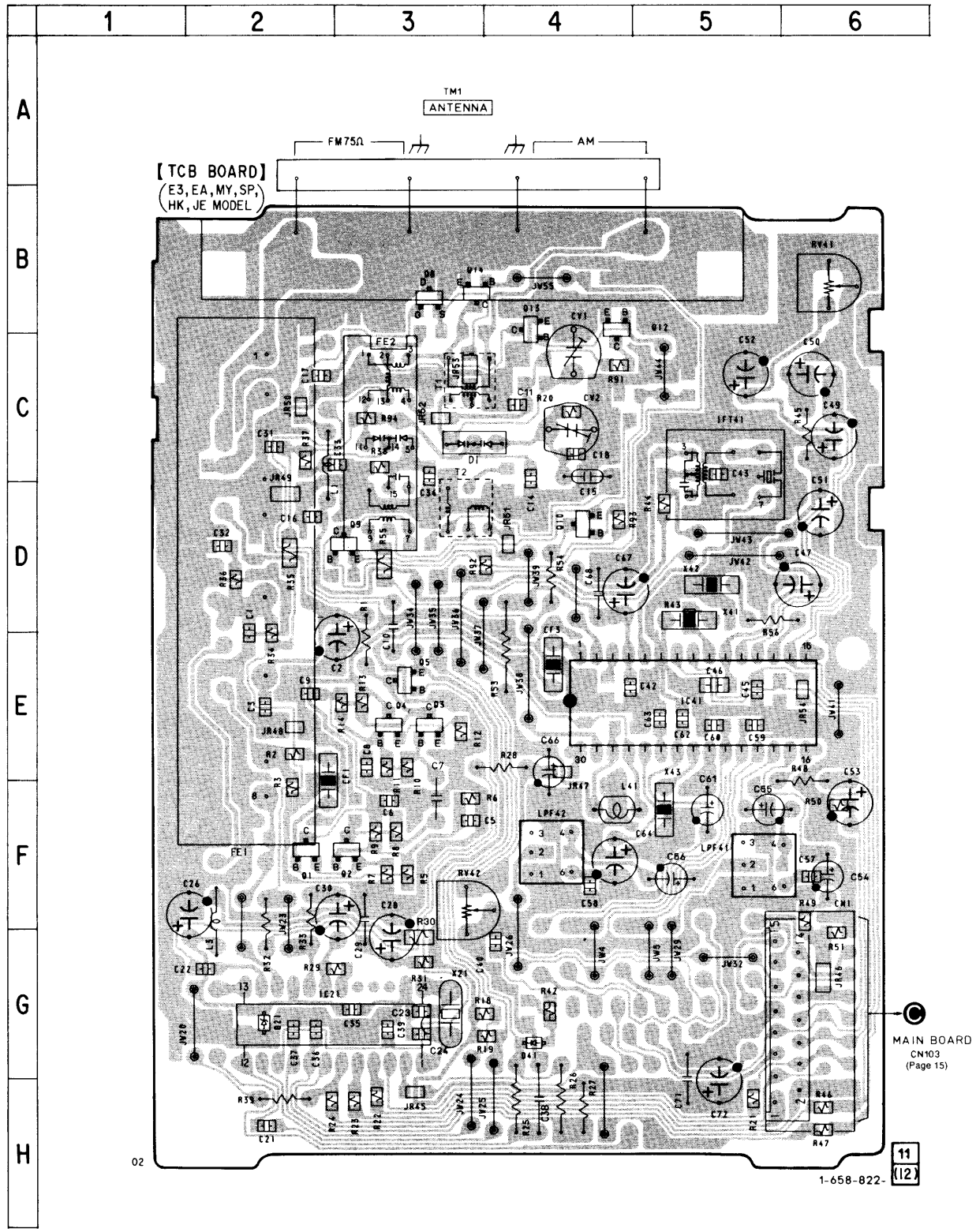
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D21	G-2	Q1	F-2
D41	G-4	Q2	F-3
		Q3	E-3
IC21	G-2	Q4	E-3
IC41	E-5	Q5	E-3

Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - CND : Canadian
  - AUS : Australian
  - AR : Argentine
  - TH : Thailand
  - E2 : Tuner sections SW BAND do not exist.

5-7. PRINTED WIRING BOARDS –TCB SECTION– (E3, EA, MY, SP, HK, JE model)



• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	C-3	Q1	F-2	Q9	D-3
D21	G-2	Q2	F-3	Q10	D-4
D41	G-4	Q3	E-3	Q12	B-4
		Q4	E-3	Q13	B-4
IC21	G-2	Q5	E-3	Q14	B-3
IC41	E-5	Q8	B-3		

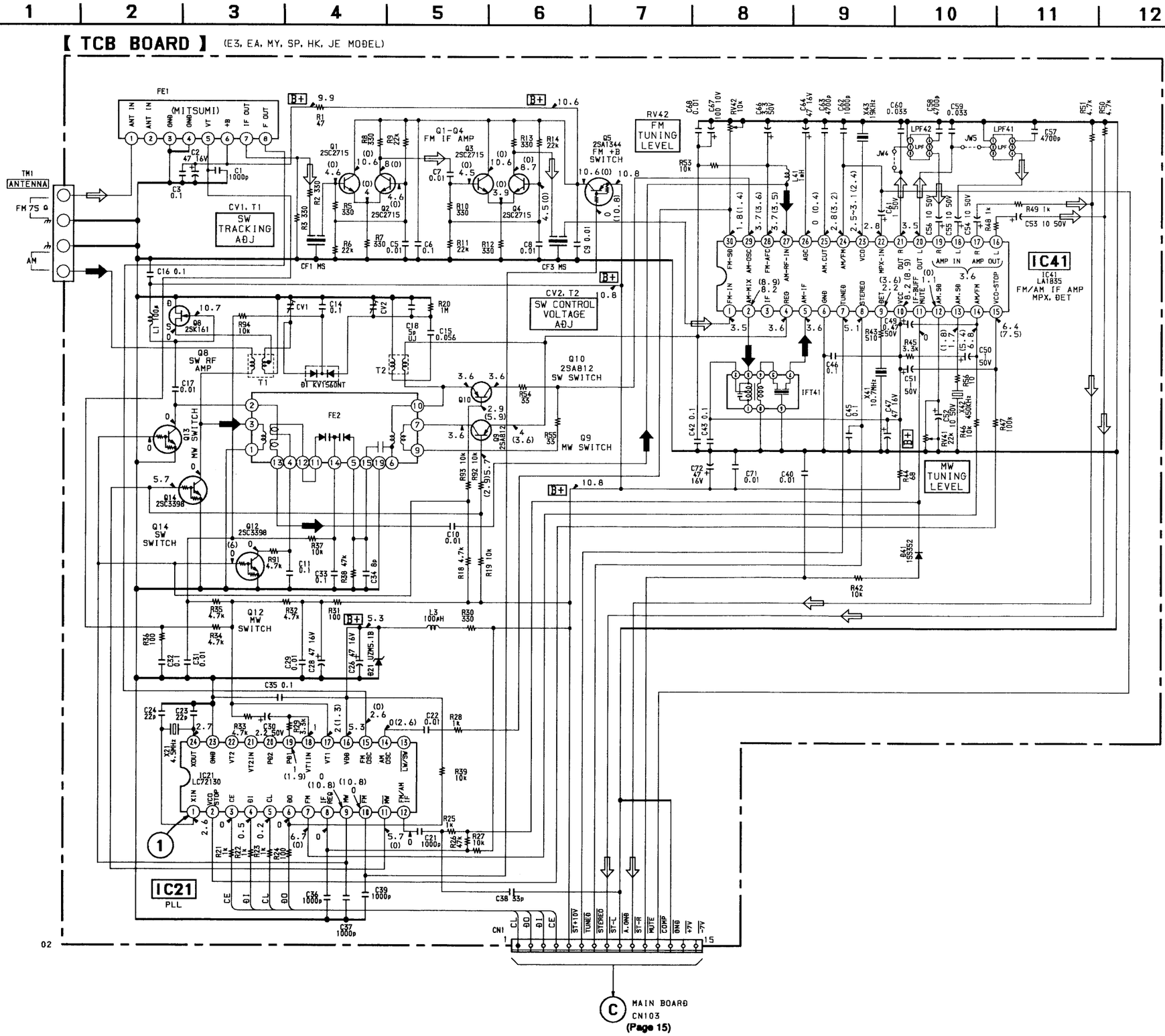
Note:

- ○— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.
- Abbreviation
  - EA : Saudi Arabia
  - HK : Hong Kong
  - SP : Singapore
  - MY : Malaysia
  - JE : Tourist
  - E3 : Tuner sections SW BAND exist.

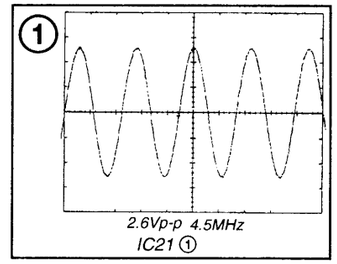
5-8. SCHEMATIC DIAGRAM –TCB SECTION– (E3, EA, MY, SP, HK, JE model)

● Refer to page 22 for IC Block Diagrams.

【 TCB BOARD 】 (E3, EA, MY, SP, HK, JE MODEL)



● WAVEFORM – TCB SECTION –



Note :

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- Δ : internal component.
- B+ : B+ Line
- [ ] : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
- Voltages are taken with a VOM (Input impedance 10MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : FM ➡ : AM
- Abbreviation
  EA : Saudi Arabia
  HK : Hong Kong
  SP : Singapore
  MY : Malaysia
  JE : Tourist
  E3 : Tuner sections SW BAND exist.

SECTION 6
EXPLODED VIEWS

NOTE :

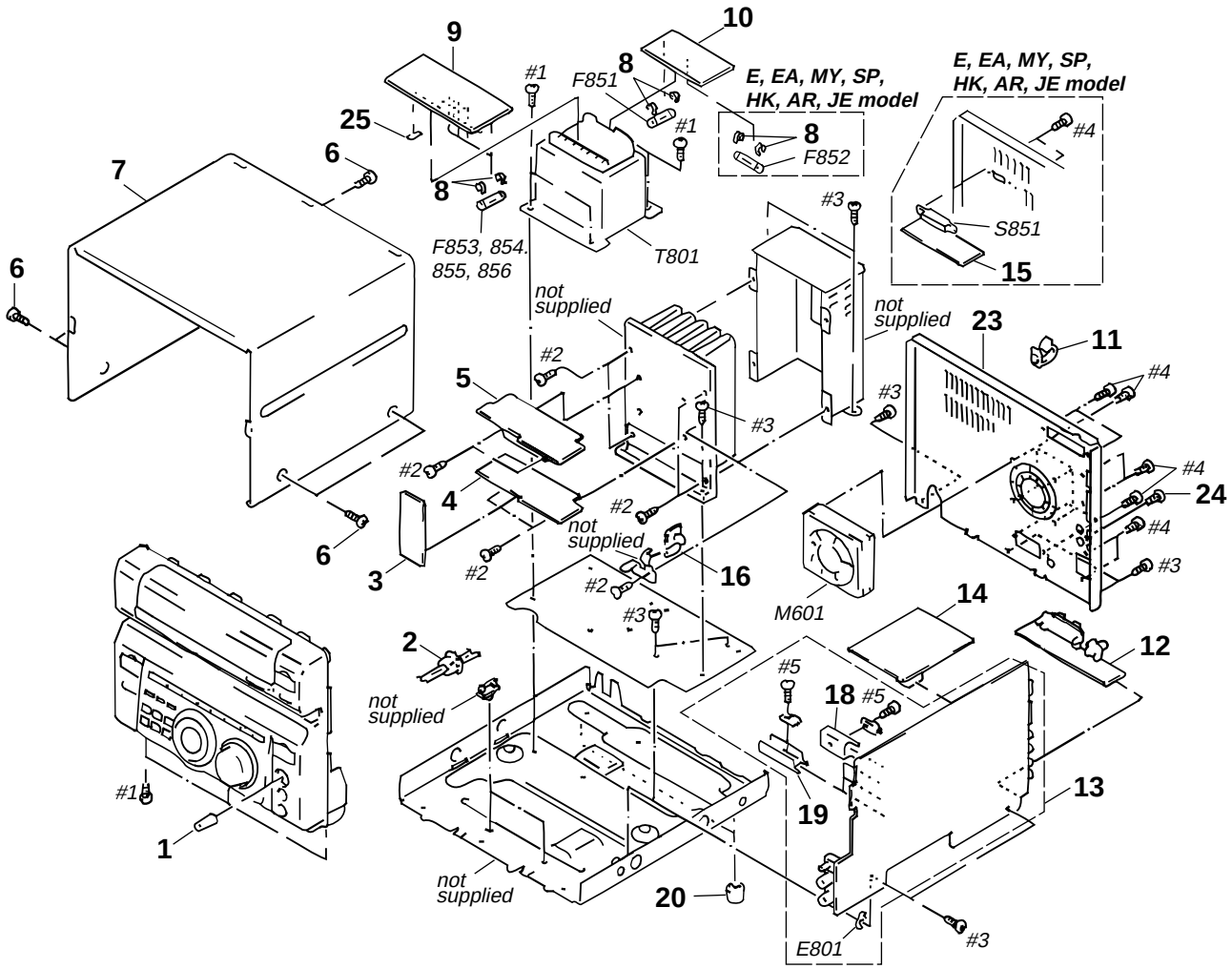
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.
- Abbreviation

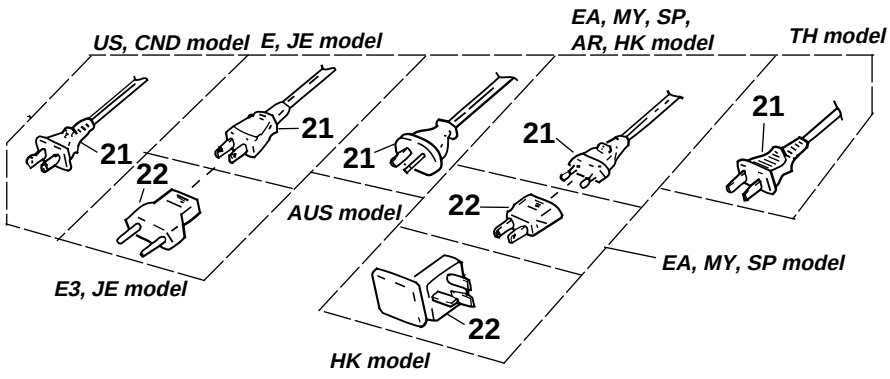
CND	: Canadian	SP	: Singapore
AUS	: Australian	HK	: Hong Kong
AR	: Argentine	JE	: Tourist
TH	: Thailand	EA	: Saudi Arabia
MY	: Malaysia		
E2	: Tuner sections SW band do not exist.		
E3	: Tuner sections SW band exist.		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

6-1. CHASSIS SECTION





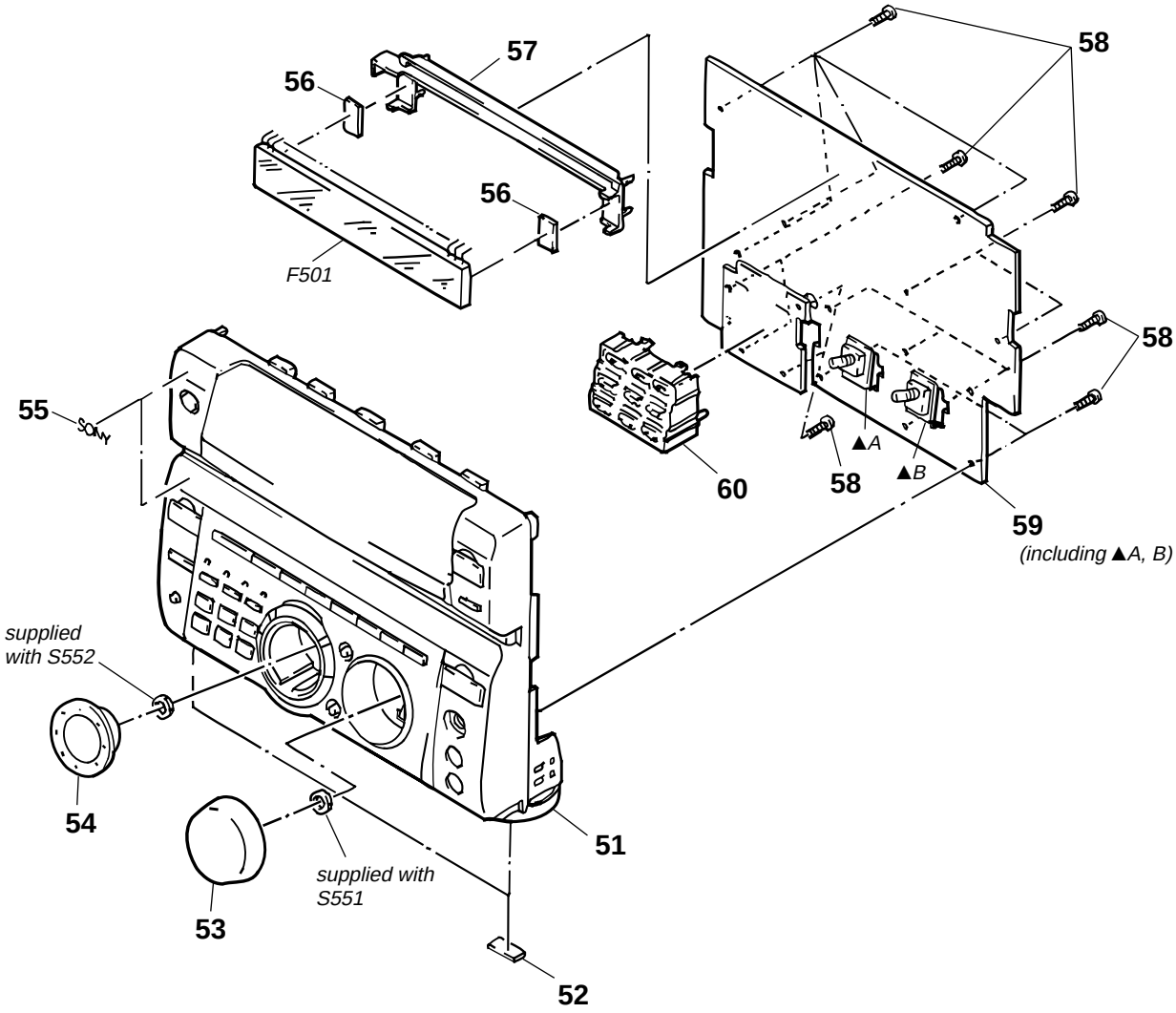
Ref. No.	Part No.	Description	Remark
1	4-978-037-11	KNOB (M)	
* 2	3-703-244-00	BUSHING (2104), CORD (EXCEPT E, TH, JE)	
2	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
2	4-966-266-01	BUSHING (S) (FBS002), CORD (E,JE)	
* 3	1-660-120-11	CONNECTION BOARD	
* 4	A-4389-758-A	POWER (B) BOARD, COMPLETE (US)	
* 4	A-4390-467-A	POWER (B) BOARD, COMPLETE (CND)	
* 4	A-4390-470-A	POWER (B) BOARD, COMPLETE	(E,EA,HK,AR,AUS,JE)
* 4	A-4390-473-A	POWER (B) BOARD, COMPLETE (MY)	
* 4	A-4390-476-A	POWER (B) BOARD, COMPLETE (SP)	
* 4	A-4390-768-A	POWER (B) BOARD, COMPLETE (TH)	
* 5	A-4389-757-A	POWER (A) BOARD, COMPLETE (US)	
* 5	A-4390-466-A	POWER (A) BOARD, COMPLETE (CND)	
* 5	A-4390-469-A	POWER (A) BOARD, COMPLETE	(E,EA,HK,AR,AUS,JE)
* 5	A-4390-472-A	POWER (A) BOARD, COMPLETE (MY)	
* 5	A-4390-475-A	POWER (A) BOARD, COMPLETE (SP)	
* 5	A-4390-767-A	POWER (A) BOARD, COMPLETE (TH)	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	4-979-348-71	CASE (EXCEPT MY,SP)	
7	4-979-348-91	CASE (MY,SP)	
8	1-533-293-11	FUSE HOLDER	
* 9	1-660-119-11	TRANSFORMER SECONDARY BOARD	
* 10	1-658-764-11	TRANS (A) BOARD	
* 11	4-949-235-01	HOOK	
* 12	1-660-122-11	SP BOARD	
* 13	A-4389-756-A	MAIN BOARD, COMPLETE (US)	
* 13	A-4390-465-A	MAIN BOARD, COMPLETE (CND)	
* 13	A-4390-468-A	MAIN BOARD, COMPLETE (E,EA,HK,AR,AUS,JE)	
* 13	A-4390-471-A	MAIN BOARD, COMPLETE (MY)	
* 13	A-4390-474-A	MAIN BOARD, COMPLETE (SP)	
* 13	A-4390-766-A	MAIN BOARD, COMPLETE (TH)	
14	A-4303-547-A	TCB BOARD, COMPLETE (US,CND)	
14	A-4303-499-A	TCB BOARD, COMPLETE (E3,EA,MY,SP,HK)	
14	A-4303-526-A	TCB BOARD, COMPLETE (E2,AR,AUS)	
14	A-4303-528-A	TCB BOARD, COMPLETE (JE)	
14	A-4304-992-A	TCB BOARD, COMPLETE (TH)	
* 15	1-659-506-11	VOLTAGE SW BOARD (E,EA,MY,SP,HK,AR,JE)	
* 16	1-660-121-11	SENSOR BOARD	
* 18	4-880-403-11	HEAT SINK	

Ref. No.	Part No.	Description	Remark
⚠ 21	1-574-805-11	CORD, POWER (EA,MY,SP,HK,AR)	
⚠ 21	1-575-653-11	CORD, POWER (E,JE)	
⚠ 21	1-575-975-11	CORD, POWER (US,CND)	
⚠ 21	1-690-608-11	CORD, POWER (AUS)	
⚠ 21	1-751-326-31	CORD, POWER (TH)	
⚠ 22	1-569-007-11	ADAPTER, CONVERSION 2P (E3,JE)	
⚠ 22	1-569-008-11	ADAPTER, CONVERSION 2P (EA,MY,SP)	
⚠ 22	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
* 23	4-980-659-01	PLATE, JACK (US)	
* 23	4-980-659-11	PLATE, JACK (CND)	
* 23	4-980-659-21	PLATE, JACK (E,EA,AR,JE)	
* 23	4-980-659-31	PLATE, JACK (AUS)	
* 23	4-980-659-41	PLATE, JACK (HK)	
* 23	4-980-659-51	PLATE, JACK (MY,SP)	
* 23	4-980-659-71	PLATE, JACK (TH)	
24	4-909-982-11	SCREW, TAPPING	
* 25	3-701-946-15	LABEL, FUSE RATING (3.15A/250V) (US,CND)	
* 25	3-701-946-14	LABEL, FUSE RATING (2.5A/250V)(US)	
E801	4-942-204-01	PLATE, GROUND	
⚠ F851	1-532-388-51	FUSE, TIME LAG (T2AL) (TH,AUS)	
⚠ F851	1-532-504-51	FUSE, TIME LAG (T4AL)	(EXCEPT US,CND,TH,AUS)
⚠ F851	1-576-109-11	FUSE (5A/125V) (CND)	
⚠ F851	1-576-110-11	FUSE (6A/125V) (US)	
⚠ F852	1-532-388-51	FUSE, TIME LAG (T4AL) (E,EA,MY,SP,HK,AR,JE)	
⚠ F853	1-532-465-51	FUSE, TIME LAG (T3.15AL) (EXCEPT US,CND)	
⚠ F853	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F854	1-532-465-51	FUSE, TIME LAG (T3.15AL) (EXCEPT US,CND)	
⚠ F854	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F855	1-532-465-51	FUSE, TIME LAG (T3.15AL) (EXCEPT US,CND)	
⚠ F855	1-532-781-41	FUSE, MICRO (3.15A) (US)	
⚠ F855	1-576-107-11	FUSE (3.15A/250V) (CND)	
⚠ F856	1-532-465-51	FUSE, TIME LAG (T3.15AL) (EXCEPT US,CND)	
⚠ F856	1-576-107-11	FUSE (3.15A/250V) (CND)	
⚠ S851	1-572-367-11	SWITCH, VOLTAGE SELECTOR	(E,EA,MY,SP,HK,AR,JE)
M601	1-698-651-11	FAN, DC (TH)	
M601	1-698-792-11	FAN, DC (EXCEPT TH)	
⚠ T801	1-429-533-11	TRANSFORMER, POWER (US,CND)	
⚠ T801	1-429-534-11	TRANSFORMER, POWER (EXCEPT US,CND)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

6-2. FRONT SECTION

▲*A : JOY ENCODER board*
▲*B : VOL ENCODER board*



Ref. No.	Part No.	Description	Remark
51	X-4946-930-1	PANEL ASSY, FRONT	
52	4-930-336-21	FOOT (FELT)	
53	4-978-034-11	KNOB (V)	
54	4-978-035-02	KNOB (J)	
55	4-962-708-01	EMBLEM (4-A), SONY	
* 56	4-932-810-01	CUSHION (FL)	
* 57	4-971-014-01	HOLDER, FL TUBE	
58	4-951-620-01	SCREW (2.6X8), +BVTP	

Ref. No.	Part No.	Description	Remark
* 59	A-4389-762-A	PANEL BOARD, COMPLETE (US,CND)	
* 59	A-4389-767-A	PANEL BOARD, COMPLETE (E3,EA,MY,SP,HK)	
* 59	A-4389-768-A	PANEL BOARD, COMPLETE (E2)	
* 59	A-4390-477-A	PANEL BOARD, COMPLETE (AR)	
* 59	A-4390-479-A	PANEL BOARD, COMPLETE (AUS)	
* 59	A-4390-591-A	PANEL BOARD, COMPLETE (JE)	
59	A-4390-762-A	PANEL BOARD, COMPLETE (TH)	
* 60	4-978-036-05	HOUSE, LAMP	
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT	

CONNECTION **MAIN**

SECTION 7
ELECTRICAL PARTS LIST

NOTE :

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE :Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ , for example :
  uA.... : µ A.... , uPA.... : µ PA....
  uPB.... : µ PB.... , uPC.... : µ PC....
  uPD.... : µ PD....
- CAPACITORS
  uF : µ F
- COILS
  uH : µ H
- Abbreviation
  CND : Canadian SP : Singapore
  AUS : Australian HK : Hong Kong
  AR : Argentine JE : Tourist
  TH : Thailand EA : Saudi Arabia
  MY : Malaysia
  E2 : Tuner sections SW band do not exist.
  E3 : Tuner sections SW band exist.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description				Remark
*	1-660-120-11	CONNECTION BOARD				
		**********				
		< CONNECTOR >				
* CN6001	1-569-494-11	SOCKET, CONNECTOR 8P				
* CN6002	1-569-494-11	SOCKET, CONNECTOR 8P				
**********						
*	A-4389-756-A	MAIN BOARD, COMPLETE (US)				
*	A-4390-465-A	MAIN BOARD, COMPLETE (CND)				
*	A-4390-468-A	MAIN BOARD, COMPLETE (E,EA,HK,AR,AUS,JE)				
*	A-4390-471-A	MAIN BOARD, COMPLETE (MY)				
*	A-4390-474-A	MAIN BOARD, COMPLETE (SP)				
*	A-4390-766-A	MAIN BOARD, COMPLETE (TH)				
		**********				
	1-533-293-11	FUSE HOLDER				
*	4-880-403-11	HEAT SINK				
*	4-941-237-11	HEAT SINK				
	7-685-872-01	SCREW +BVTT 3X6 (S)				
		< CAPACITOR >				
C101	1-136-167-00	FILM	0.15uF	5%	50V	
C102	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
C103	1-136-169-00	FILM	0.22uF	5%	50V	
C104	1-136-169-00	FILM	0.22uF	5%	50V	
C105	1-136-495-11	FILM	0.068uF	5%	50V	
C106	1-136-495-11	FILM	0.068uF	5%	50V	
C107	1-136-156-00	FILM	0.018uF	5%	50V	
C108	1-136-156-00	FILM	0.018uF	5%	50V	
C109	1-102-126-00	CERAMIC	0.0056uF	10%	50V	
C110	1-102-125-00	CERAMIC	4700PF	10%	50V	
C111	1-102-125-00	CERAMIC	4700PF	10%	50V	
C112	1-126-963-11	ELECT	4.7uF	20%	50V	
C113	1-126-963-11	ELECT	4.7uF	20%	50V	
C114	1-136-166-00	FILM	0.12uF	5%	50V	
C115	1-136-166-00	FILM	0.12uF	5%	50V	
C116	1-124-925-11	ELECT	2.2uF	20%	100V	
C117	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C118	1-126-964-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description				Remark
C119	1-126-963-11	ELECT	4.7uF	20%	50V	
C120	1-124-464-11	ELECT	0.22uF	20%	50V	
C121	1-126-963-11	ELECT	4.7uF	20%	50V	
C122	1-124-903-11	ELECT	1uF	20%	50V	
C134	1-126-964-11	ELECT	10uF	20%	50V	
C135	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C136	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C137	1-126-964-11	ELECT	10uF	20%	50V	
C138	1-126-964-11	ELECT	10uF	20%	50V	
C139	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C153	1-136-169-00	FILM	0.22uF	5%	50V	
C154	1-136-169-00	FILM	0.22uF	5%	50V	
C155	1-136-495-11	FILM	0.068uF	5%	50V	
C156	1-136-495-11	FILM	0.068uF	5%	50V	
C157	1-136-156-00	FILM	0.018uF	5%	50V	
C158	1-136-156-00	FILM	0.018uF	5%	50V	
C159	1-102-126-00	CERAMIC	0.0056uF	10%	50V	
C160	1-102-125-00	CERAMIC	4700PF	10%	50V	
C161	1-102-125-00	CERAMIC	4700PF	10%	50V	
C162	1-126-963-11	ELECT	4.7uF	20%	50V	
C163	1-126-963-11	ELECT	4.7uF	20%	50V	
C164	1-136-166-00	FILM	0.12uF	5%	50V	
C165	1-136-166-00	FILM	0.12uF	5%	50V	
C166	1-124-925-11	ELECT	2.2uF	20%	100V	
C167	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C168	1-126-964-11	ELECT	10uF	20%	50V	
C169	1-126-963-11	ELECT	4.7uF	20%	50V	
C171	1-126-963-11	ELECT	4.7uF	20%	50V	
C172	1-124-903-11	ELECT	1uF	20%	50V	
C602	1-126-967-11	ELECT	47uF	20%	50V	
C603	1-126-967-11	ELECT	47uF	20%	50V	
C604	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C610	1-126-964-11	ELECT	10uF	20%	50V	
C701	1-162-286-31	CERAMIC	220PF	10%	50V	
C702	1-126-963-11	ELECT	4.7uF	20%	50V	
C731	1-126-964-11	ELECT	10uF	20%	50V	
C732	1-126-964-11	ELECT	10uF	20%	50V	

Ref. No.	Part No.	Description			Remark
C738	1-162-306-11	CERAMIC	0.01uF	30%	16V
C739	1-162-306-11	CERAMIC	0.01uF	30%	16V
C751	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C752	1-126-963-11	ELECT	4.7uF	20%	50V
C769	1-164-159-11	CERAMIC	0.1uF		50V
C771	1-162-306-11	CERAMIC	0.01uF	30%	16V
C772	1-124-925-11	ELECT	2.2uF	20%	100V
C773	1-162-294-31	CERAMIC	0.001uF	10%	50V
C774	1-162-215-31	CERAMIC	47PF	5%	50V
C775	1-162-290-31	CERAMIC	470PF	10%	50V
C776	1-124-902-00	ELECT	0.47uF	20%	50V
C778	1-162-215-31	CERAMIC	47PF	5%	50V
C779	1-162-282-31	CERAMIC	100PF	10%	50V
C780	1-124-925-11	ELECT	2.2uF	20%	100V
C781	1-104-664-11	ELECT	47uF	20%	25V
C782	1-104-664-11	ELECT	47uF	20%	25V
C790	1-164-159-11	CERAMIC	0.1uF		50V
C801	1-136-165-00	FILM	0.1uF	5%	50V
C802	1-136-165-00	FILM	0.1uF	5%	50V
C803	1-107-497-11	ELECT	4700uF	20%	63V
C804	1-107-497-11	ELECT	4700uF	20%	63V
C807	1-126-948-11	ELECT	100uF	20%	35V
C808	1-126-947-11	ELECT	47uF	20%	35V
C809	1-126-964-11	ELECT	10uF	20%	50V
C810	1-162-306-11	CERAMIC	0.01uF	30%	16V
C811	1-126-933-11	ELECT	100uF	20%	16V
C812	1-126-967-11	ELECT	47uF	20%	10V
C813	1-126-967-11	ELECT	47uF	20%	10V
C814	1-126-964-11	ELECT	10uF	20%	50V
C815	1-126-933-11	ELECT	100uF	20%	16V
C816	1-126-967-11	ELECT	47uF	20%	10V
C817	1-126-967-11	ELECT	47uF	20%	10V
C818	1-126-967-11	ELECT	47uF	20%	10V
C819	1-126-967-11	ELECT	47uF	20%	10V
C820	1-136-165-00	FILM	0.1uF	5%	50V
C821	1-136-165-00	FILM	0.1uF	5%	50V
C822	1-162-306-11	CERAMIC	0.01uF	30%	16V
C823	1-162-306-11	CERAMIC	0.01uF	30%	16V
C826	1-162-306-11	CERAMIC	0.01uF	30%	16V
C827	1-162-306-11	CERAMIC	0.01uF	30%	16V
C828	1-162-306-11	CERAMIC	0.01uF	30%	16V
C829	1-162-306-11	CERAMIC	0.01uF	30%	16V
C830	1-162-306-11	CERAMIC	0.01uF	30%	16V
C831	1-126-944-11	ELECT	3300uF	20%	25V
C832	1-126-944-11	ELECT	3300uF	20%	25V
C835	1-136-176-00	FILM	0.82uF	5%	50V
C836	1-136-176-00	FILM	0.82uF	5%	50V
C852	1-126-923-11	ELECT	220uF	20%	10V
C853	1-126-933-11	ELECT	100uF	20%	10V
C858	1-126-933-11	ELECT	100uF	20%	10V
C859	1-124-925-11	ELECT	2.2uF	20%	100V
C860	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C861	1-164-159-11	CERAMIC	0.1uF		50V
C1001	1-126-964-11	ELECT	10uF	20%	50V
C1002	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C1003	1-126-964-11	ELECT	10uF	20%	50V
C1010	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1011	1-162-306-11	CERAMIC	0.01uF	30%	16V
C1012	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C2001	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C2002	1-126-963-11	ELECT	4.7uF	20%	50V
C2005	1-124-925-11	ELECT	2.2uF	20%	100V
C2006	1-126-963-11	ELECT	4.7uF	20%	50V
C2010	1-126-972-11	ELECT	1000uF	20%	50V
C2021	1-162-306-11	CERAMIC	0.01uF	30%	16V
C2022	1-162-306-11	CERAMIC	0.01uF	30%	16V
C2023	1-126-964-11	ELECT	10uF	20%	50V
C2024	1-126-964-11	ELECT	10uF	20%	50V
C2025	1-162-306-11	CERAMIC	0.01uF	30%	16V
C2026	1-162-306-11	CERAMIC	0.01uF	30%	16V
C2051	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C2052	1-126-963-11	ELECT	4.7uF	20%	50V
C2055	1-124-925-11	ELECT	2.2uF	20%	100V
C2056	1-126-963-11	ELECT	4.7uF	20%	50V
C2060	1-126-972-11	ELECT	1000uF	20%	50V
C3002	1-126-923-11	ELECT	220uF	20%	10V
C3003	1-136-159-00	FILM	0.033uF	5%	50V
C3004	1-137-365-11	FILM	0.0015uF	5%	50V
C3005	1-136-159-00	FILM	0.033uF	5%	50V
C3006	1-124-903-11	ELECT	1uF	20%	50V
C3007	1-126-964-11	ELECT	10uF	20%	50V
C3008	1-126-964-11	ELECT	10uF	20%	50V
C3009	1-162-294-31	CERAMIC	0.001uF	10%	50V
C3010	1-126-963-11	ELECT	4.7uF	20%	50V
C3011	1-124-925-11	ELECT	2.2uF	20%	100V
C3012	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C3013	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C3014	1-126-923-11	ELECT	220uF	20%	10V
C3015	1-136-159-00	FILM	0.033uF	5%	50V
C3016	1-126-964-11	ELECT	10uF	20%	50V
C3017	1-126-933-11	ELECT	100uF	20%	10V
C3018	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C3022	1-126-963-11	ELECT	4.7uF	20%	50V
C3023	1-136-173-00	FILM	0.47uF	5%	50V
C3024	1-126-967-11	ELECT	47uF	20%	10V
C3025	1-136-165-00	FILM	0.1uF	5%	50V
C3026	1-136-165-00	FILM	0.1uF	5%	50V
C3027	1-124-902-00	ELECT	0.47uF	20%	50V
C3028	1-126-963-11	ELECT	4.7uF	20%	50V
C3029	1-124-902-00	ELECT	0.47uF	20%	50V
C3030	1-126-963-11	ELECT	4.7uF	20%	50V
C3031	1-136-167-00	FILM	0.15uF	5%	50V
C3032	1-126-962-11	ELECT	3.3uF	20%	50V

MAIN

Ref. No.	Part No.	Description				Remark
C3033	1-136-167-00	FILM	0.15uF	5%	50V	
C3034	1-136-157-00	FILM	0.022uF	5%	50V	
C3035	1-136-161-00	FILM	0.047uF	5%	50V	
C3036	1-126-923-11	ELECT	220uF	20%	10V	
C3037	1-126-964-11	ELECT	10uF	20%	50V	
C3038	1-126-964-11	ELECT	10uF	20%	50V	
C3039	1-126-964-11	ELECT	10uF	20%	50V	
C3040	1-126-964-11	ELECT	10uF	20%	50V	
C3041	1-126-923-11	ELECT	220uF	20%	10V	
C3042	1-126-962-11	ELECT	3.3uF	20%	50V	
C3043	1-126-962-11	ELECT	3.3uF	20%	50V	
C3044	1-136-165-00	FILM	0.1uF	5%	50V	
C3045	1-136-165-00	FILM	0.1uF	5%	50V	
C3046	1-124-902-00	ELECT	0.47uF	20%	50V	
C3047	1-126-963-11	ELECT	4.7uF	20%	50V	
C3048	1-124-902-00	ELECT	0.47uF	20%	50V	
C3049	1-126-963-11	ELECT	4.7uF	20%	50V	
C3050	1-136-167-00	FILM	0.15uF	5%	50V	
C3051	1-126-962-11	ELECT	3.3uF	20%	50V	
C3052	1-136-167-00	FILM	0.15uF	5%	50V	
C3058	1-164-159-11	CERAMIC	0.1uF		50V	
		< CONNECTOR >				
CN102	1-506-469-11	PIN, CONNECTOR 4P				
CN103	1-774-289-11	PIN, CONNECTOR (PC BOARD) 15P				
CN104	1-691-772-11	PLUG (MICRO CONNECTOR) 10P				
CN105	1-774-338-11	SOCKET, CONNECTOR(PC BOARD)18P				
CN106	1-774-337-11	SOCKET, CONNECTOR(PC BOARD)16P				
* CN601	1-564-506-11	PLUG, CONNECTOR 3P				
CN802	1-691-773-11	PLUG (MICRO CONNECTOR) 11P				
CN1004	1-691-766-11	PLUG (MICRO CONNECTOR) 4P				
CN2003	1-506-468-11	PIN, CONNECTOR 3P				
CN2004	1-569-492-11	SOCKET, CONNECTOR 6P				
		< CONNECTOR >				
CNP701	1-569-624-41	SOCKET, CONNECTOR 17P (SYSTEM CONTROL 1)				
CNP702	1-566-857-11	SOCKET, CONNECTOR 7P (SYSTEM CONTROL 2)				
		< DIODE >				
D101	8-719-987-63	DIODE	1N4148M			
D603	8-719-987-63	DIODE	1N4148M			
D604	8-719-987-63	DIODE	1N4148M			
D605	8-719-200-82	DIODE	11ES2			
D606	8-719-200-82	DIODE	11ES2			
D610	8-719-987-63	DIODE	1N4148M			
D670	8-719-987-63	DIODE	1N4148M			
D690	8-719-987-63	DIODE	1N4148M			
D701	8-719-200-82	DIODE	11ES2			
D702	8-719-200-82	DIODE	11ES2			
D801	8-719-302-37	DIODE	RBV-602 (EXCEPT TH)			

Ref. No.	Part No.	Description		Remark
D801	8-719-302-38	DIODE	RBV-602-01(TH)	
D804	8-719-011-16	DIODE	UZ-33BSA	
D805	8-719-010-52	DIODE	UZ-7.5BS (EXCEPT TH)	
D805	8-719-110-03	DIODE	RD7.5ESB2 (TH)	
D807	8-719-109-98	DIODE	RD6.8ES-B3	
D808	8-719-010-52	DIODE	UZ-7.5BS (EXCEPT TH)	
D808	8-719-110-03	DIODE	RD7.5ESB2 (TH)	
D809	8-719-987-63	DIODE	1N4148M	
D810	8-719-987-63	DIODE	1N4148M	
D811	8-719-200-82	DIODE	11ES2	
D812	8-719-200-82	DIODE	11ES2	
D813	8-719-200-82	DIODE	11ES2	
D814	8-719-200-82	DIODE	11ES2	
D821	8-719-815-85	DIODE	1S1585	
D824	8-719-200-82	DIODE	11ES2	
D840	8-719-987-63	DIODE	1N4148M	
D841	8-719-987-63	DIODE	1N4148M	
D852	8-719-987-63	DIODE	1N4148M	
D1021	8-719-988-62	DIODE	1SS355	
D2001	8-719-815-85	DIODE	1S1585	
		< PLATE, GROUND >		
* E801	4-942-204-01	PLATE, GROUND		
		< IC >		
IC101	8-759-100-96	IC	uPC4558G2	
IC105	8-759-331-39	IC	M62427FP	
IC107	8-759-000-49	IC	MC14066BCP	
IC701	8-759-000-48	IC	MC14052BCP	
IC770	8-759-634-51	IC	M5218AP	
IC801	8-759-231-58	IC	TA7812S	
IC802	8-759-701-59	IC	NJM78M09FA	
IC850	8-759-111-68	IC	uPC1237HA	
IC1001	8-759-100-96	IC	uPC4558G2	
IC2001	8-759-100-96	IC	uPC4558G2	
IC2002	8-759-281-42	IC	TC9210P	
IC3000	8-759-341-23	IC	LV1011	
IC3001	8-759-248-74	IC	LA2785	
		< JACK >		
J102	1-507-854-00	JACK,PHONE (PHONES)		
J701	1-565-258-11	JACK, PIN 4P (MD IN/OUT)		
J702	1-507-854-00	JACK,PHONE (MIC MIX)		
		< JUMPER RESISTOR >		
JR1	1-216-296-91	METAL CHIP	0 5% 1/8W	
JR2	1-216-296-91	METAL CHIP	0 5% 1/8W	
JR3	1-216-296-91	METAL CHIP	0 5% 1/8W	
JR104	1-216-222-91	METAL CHIP	10K 5% 1/10W	

Ref. No.	Part No.	Description			Remark
		< COIL >			
L921	1-420-872-00	COIL, AIR-CORE			
L971	1-420-872-00	COIL, AIR-CORE			
L3001	1-410-509-11	INDUCTOR	10uH (EXCEPT TH)		
L3002	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q111	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q161	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q190	8-729-113-72	TRANSISTOR	FN1A4M-M33		
Q191	8-729-107-43	TRANSISTOR	2SC3624-L18		
Q192	8-729-107-43	TRANSISTOR	2SC3624-L18		
Q601	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q602	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q603	8-729-113-72	TRANSISTOR	FN1A4M-M33		
Q604	8-729-113-72	TRANSISTOR	FN1A4M-M33		
Q605	8-729-801-93	TRANSISTOR	2SD1387		
Q606	8-729-801-93	TRANSISTOR	2SD1387		
Q701	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q702	8-729-113-72	TRANSISTOR	FN1A4M-M33		
Q751	8-729-107-46	TRANSISTOR	2SC3624A-L15		
Q752	8-729-805-41	TRANSISTOR	2SC3398 (EXCEPT TH)		
Q752	8-729-038-23	TRANSISTOR	RT1N141C-TP-1 (TH)		
Q801	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q802	8-729-209-15	TRANSISTOR	2SD2012		
Q804	8-729-209-15	TRANSISTOR	2SD2012		
Q805	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q810	8-729-661-94	TRANSISTOR	RT1N141SK-TP		
Q811	8-729-620-05	TRANSISTOR	2SC2603-EF		
Q856	8-729-661-96	TRANSISTOR	RT1N441SK-TP		
Q857	8-729-901-05	TRANSISTOR	DTA124EK		
Q1010	8-729-107-43	TRANSISTOR	2SC3624-L18		
Q2001	8-729-141-30	TRANSISTOR	2SC3623A-LK		
Q2010	8-729-107-43	TRANSISTOR	2SC3624-L18		
Q2051	8-729-107-43	TRANSISTOR	2SC3624-L18		
Q8004	8-729-620-05	TRANSISTOR	2SC2603-EF		
		< RESISTOR >			
R101	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R102	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R103	1-216-073-00	METAL CHIP	10K	5% 1/10W	
R104	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R105	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R106	1-249-419-11	CARBON	1.5K	5% 1/4W	(US,CND)
R106	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US,CND)
R107	1-249-419-11	CARBON	1.5K	5% 1/4W	(US,CND)
R107	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US,CND)
R108	1-247-887-00	CARBON	220K	5% 1/4W	

Ref. No.	Part No.	Description			Remark
R109	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R110	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R111	1-216-097-91	METAL GLAZE	100K	5% 1/10W	
R112	1-216-049-91	METAL GLAZE	1K	5% 1/10W	(EXCEPT TH)
R112	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	(TH)
R113	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R114	1-249-441-11	CARBON	100K	5% 1/4W	
R115	1-249-429-11	CARBON	10K	5% 1/4W	
R116	1-216-065-00	METAL CHIP	4.7K	5% 1/10W	
R117	1-216-121-91	METAL GLAZE	1M	5% 1/10W	
R118	1-249-409-11	CARBON	220	5% 1/4W	
R119	1-249-433-11	CARBON	22K	5% 1/4W	
R124	1-249-437-11	CARBON	47K	5% 1/4W	
R125	1-216-025-91	METAL GLAZE	100	5% 1/10W	
R126	1-216-101-00	METAL CHIP	150K	5% 1/10W	
R129	1-216-105-91	METAL GLAZE	220K	5% 1/10W	
R135	1-247-807-31	CARBON	100	5% 1/4W	
R136	1-247-807-31	CARBON	100	5% 1/4W	
R137	1-247-807-31	CARBON	100	5% 1/4W	
R138	1-247-807-31	CARBON	100	5% 1/4W	
R139	1-247-807-31	CARBON	100	5% 1/4W	
R140	1-247-807-31	CARBON	100	5% 1/4W	
R141	1-247-807-31	CARBON	100	5% 1/4W	
R142	1-247-807-31	CARBON	100	5% 1/4W	
R143	1-247-807-31	CARBON	100	5% 1/4W	
R144	1-247-807-31	CARBON	100	5% 1/4W	
R145	1-247-807-31	CARBON	100	5% 1/4W	
R146	1-247-807-31	CARBON	100	5% 1/4W	
R147	1-247-807-31	CARBON	100	5% 1/4W	
R148	1-247-807-31	CARBON	100	5% 1/4W	
R149	1-247-807-31	CARBON	100	5% 1/4W	
R150	1-247-807-31	CARBON	100	5% 1/4W	
R151	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R152	1-216-089-91	METAL GLAZE	47K	5% 1/10W	
R153	1-249-429-11	CARBON	10K	5% 1/4W	
R154	1-249-429-11	CARBON	10K	5% 1/4W	
R155	1-249-429-11	CARBON	10K	5% 1/4W	
R156	1-249-419-11	CARBON	1.5K	5% 1/4W	(US,CND)
R156	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US,CND)
R157	1-249-419-11	CARBON	1.5K	5% 1/4W	(US,CND)
R157	1-249-417-11	CARBON	1K	5% 1/4W	(EXCEPT US,CND)
R158	1-247-887-00	CARBON	220K	5% 1/4W	
R159	1-216-057-00	METAL CHIP	2.2K	5% 1/10W	
R160	1-216-049-91	METAL GLAZE	1K	5% 1/10W	
R161	1-249-441-11	CARBON	100K	5% 1/4W	
R162	1-216-049-91	METAL GLAZE	1K	5% 1/10W	(EXCEPT TH)

MAIN

Ref. No.	Part No.	Description			Remark
R162	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (TH)
R163	1-216-085-00	METAL CHIP	33K	5%	1/10W
R164	1-249-441-11	CARBON	100K	5%	1/4W
R171	1-247-807-31	CARBON	100	5%	1/4W
R174	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R175	1-249-429-11	CARBON	10K	5%	1/4W
R176	1-216-101-00	METAL CHIP	150K	5%	1/10W
R177	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R178	1-249-433-11	CARBON	22K	5%	1/4W
R181	1-247-807-31	CARBON	100	5%	1/4W
R182	1-247-807-31	CARBON	100	5%	1/4W
R183	1-247-807-31	CARBON	100	5%	1/4W
R190	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R191	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R192	1-249-425-11	CARBON	4.7K	5%	1/4W
R193	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R194	1-216-025-91	METAL GLAZE	100	5%	1/10W
R195	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R196	1-216-025-91	METAL GLAZE	100	5%	1/10W
R604	1-249-425-11	CARBON	4.7K	5%	1/4W
R605	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R606	1-216-073-00	METAL CHIP	10K	5%	1/10W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-249-429-11	CARBON	10K	5%	1/4W
R609	1-216-079-00	METAL CHIP	18K	5%	1/10W
R610	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R611	1-249-441-11	CARBON	100K	5%	1/4W
R620	1-249-431-11	CARBON	15K	5%	1/4W
R670	1-249-431-11	CARBON	15K	5%	1/4W
R690	1-249-432-11	CARBON	18K	5%	1/4W
R702	1-216-061-91	METAL CHIP	3.3K	5%	1/10W (US,CND)
R702	1-216-069-91	METAL CHIP	6.8K	5%	1/10W (EXCEPT US,CND)
R703	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R704	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (US,CND)
R704	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (EXCEPT US,CND)
R705	1-216-073-00	METAL CHIP	10K	5%	1/10W
R706	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R707	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R709	1-216-073-00	METAL CHIP	10K	5%	1/10W
R710	1-249-417-11	CARBON	1K	5%	1/4W
R720	1-249-441-11	CARBON	100K	5%	1/4W
R752	1-216-061-91	METAL CHIP	3.3K	5%	1/10W (US,CND)
R752	1-216-069-91	METAL CHIP	6.8K	5%	1/10W (EXCEPT US,CND)
R753	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R754	1-216-067-00	METAL CHIP	5.6K	5%	1/10W (US,CND)
R754	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (EXCEPT US,CND)
R755	1-216-073-00	METAL CHIP	10K	5%	1/10W
R756	1-249-417-11	CARBON	1K	5%	1/4W
R757	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R759	1-216-073-00	METAL CHIP	10K	5%	1/10W
R760	1-249-417-11	CARBON	1K	5%	1/4W
R771	1-249-429-11	CARBON	10K	5%	1/4W
R772	1-249-417-11	CARBON	1K	5%	1/4W
R773	1-249-441-11	CARBON	100K	5%	1/4W
R774	1-249-417-11	CARBON	1K	5%	1/4W
R775	1-249-429-11	CARBON	10K	5%	1/4W
R777	1-249-423-11	CARBON	3.3K	5%	1/4W
R779	1-249-441-11	CARBON	100K	5%	1/4W
R780	1-247-807-31	CARBON	100	5%	1/4W
⚠ R801	1-212-982-00	FUSIBLE	100	5%	1/2W F
R804	1-249-417-11	CARBON	1K	5%	1/4W
R805	1-249-417-11	CARBON	1K	5%	1/4W
R807	1-249-417-11	CARBON	1K	5%	1/4W
⚠ R808	1-217-642-91	FUSIBLE	6.8	5%	1/4W F
R809	1-249-417-11	CARBON	1K	5%	1/4W
⚠ R810	1-212-934-00	FUSIBLE	1	5%	1/2W F
⚠ R811	1-217-642-91	FUSIBLE	6.8	5%	1/4W F
⚠ R812	1-212-934-00	FUSIBLE	1	5%	1/2W F
⚠ R813	1-212-946-11	FUSIBLE	3.3	5%	1/2W F
R818	1-249-429-11	CARBON	10K	5%	1/4W
R819	1-249-429-11	CARBON	10K	5%	1/4W
R840	1-249-429-11	CARBON	10K	5%	1/4W
R851	1-249-430-11	CARBON	12K	5%	1/4W
R853	1-249-397-11	CARBON	22	5%	1/4W
R854	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R856	1-216-073-00	METAL CHIP	10K	5%	1/10W
R857	1-249-435-11	CARBON	33K	5%	1/4W
R858	1-249-437-11	CARBON	47K	5%	1/4W
R859	1-249-439-11	CARBON	68K	5%	1/4W
R860	1-249-425-11	CARBON	4.7K	5%	1/4W
R870	1-216-457-00	METAL OXIDE	1.2K	5%	2W (US,CND)
R870	1-216-456-00	METAL OXIDE	820	5%	2W (EXCEPT US,CND)
R871	1-216-073-00	METAL CHIP	10K	5%	1/10W
R872	1-216-069-00	METAL CHIP	6.8K	5%	1/10W (US,CND)
R872	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT US,CND)
R921	1-249-397-11	CARBON	22	5%	1/4W
R922	1-249-397-11	CARBON	22	5%	1/4W
R944	1-249-417-11	CARBON	1K	5%	1/4W
R971	1-249-397-11	CARBON	22	5%	1/4W
R972	1-249-397-11	CARBON	22	5%	1/4W
R1001	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1002	1-216-073-00	METAL CHIP	10K	5%	1/10W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R1003	1-249-423-11	CARBON	3.3K	5%	1/4W
R1005	1-216-073-00	METAL CHIP	10K	5%	1/10W
R1006	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1007	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1010	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R1011	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R1020	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R1021	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R1061	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1101	1-249-437-11	CARBON	47K	5%	1/4W
R1102	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2001	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2002	1-249-441-11	CARBON	100K	5%	1/4W
R2003	1-216-077-00	METAL CHIP	15K	5%	1/10W
R2004	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2005	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2006	1-249-417-11	CARBON	1K	5%	1/4W
R2007	1-249-425-11	CARBON	4.7K	5%	1/4W
R2008	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2010	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2011	1-249-409-11	CARBON	220	5%	1/4W
R2012	1-249-409-11	CARBON	220	5%	1/4W
R2030	1-216-457-00	METAL OXIDE	1.2K	5%	2W (US,CND)
R2030	1-216-456-00	METAL OXIDE	820	5%	2W (EXCEPT US,CND)
R2051	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2052	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2053	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2054	1-216-073-00	METAL CHIP	10K	5%	1/10W
R2055	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R2056	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2057	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R2058	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R2060	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2061	1-249-409-11	CARBON	220	5%	1/4W
R2062	1-249-409-11	CARBON	220	5%	1/4W
R2101	1-249-437-11	CARBON	47K	5%	1/4W
R2102	1-249-437-11	CARBON	47K	5%	1/4W
R3000	1-247-903-00	CARBON	1M	5%	1/4W
R3001	1-249-411-11	CARBON	330	5%	1/4W
R3002	1-249-432-11	CARBON	18K	5%	1/4W
R3006	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R3007	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R3008	1-249-417-11	CARBON	1K	5%	1/4W
R3009	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3010	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R3030	1-249-417-11	CARBON	1K	5%	1/4W
R3040	1-249-417-11	CARBON	1K	5%	1/4W
R3100	1-247-807-31	CARBON	100	5%	1/4W

Ref. No.	Part No.	Description			Remark
R3107	1-249-441-11	CARBON	100K	5%	1/4W
R3207	1-249-441-11	CARBON	100K	5%	1/4W
R5032	1-249-429-11	CARBON	10K	5%	1/4W (E2,AUS)
		< VARIABLE RESISTOR >			
RV771	1-223-672-11	RES, VAR, CARBON 10K (MIC LEVEL)			
		< RELAY >			
RY801	1-515-920-11	RELAY (24V)			
RY2001	1-515-920-11	RELAY (24V)			
		< TERMINAL >			
TB901	1-537-240-31	TERMINAL BOARD (CHECKER PIN) (FRONT SPEAKER)			
		< VIBRATOR >			
X3001	1-579-952-21	VIBRATOR, CERAMIC (8MHz)			
**********					
*	A-4389-762-A	PANEL BOARD, COMPLETE (US,CND)			
*	A-4389-767-A	PANEL BOARD, COMPLETE (E3,EA,MY,SP,HK)			
*	A-4389-768-A	PANEL BOARD, COMPLETE (E2)			
*	A-4390-477-A	PANEL BOARD, COMPLETE (AR)			
*	A-4390-479-A	PANEL BOARD, COMPLETE (AUS)			
*	A-4390-591-A	PANEL BOARD, COMPLETE (JE)			
	A-4390-762-A	PANEL BOARD, COMPLETE (TH)			
		**********			
		JOY ENCODER BOARD			
		**********			
		VOL ENCODER BOARD			
		**********			
*	4-932-810-01	CUSHION (FL)			
*	4-971-014-01	HOLDER, FL TUBE			
*	4-978-036-05	HOUSE, LAMP			
		< CAPACITOR >			
C501	1-104-905-11	CAPACITOR	0.22uF		5.5V
C502	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C504	1-164-159-11	CERAMIC	0.1uF		50V
C505	1-164-159-11	CERAMIC	0.1uF		50V
C506	1-126-968-11	ELECT	100uF	20%	35V
C511	1-126-968-11	ELECT	100uF	20%	6.3V
C540	1-164-159-11	CERAMIC	0.1uF		50V
C541	1-126-233-11	ELECT	22uF	20%	50V
C542	1-164-159-11	CERAMIC	0.1uF		50V
C543	1-163-165-00	CERAMIC CHIP	22PF	5%	50V
C544	1-163-163-00	CERAMIC CHIP	18PF	5%	50V
C545	1-164-159-11	CERAMIC	0.1uF		50V
C5001	1-101-006-00	CERAMIC	0.047uF		50V
C5002	1-124-464-11	ELECT	0.22uF	20%	50V
C5003	1-101-004-00	CERAMIC	0.01uF		50V
C5004	1-130-473-00	MYLAR	0.0015uF	5%	50V

PANEL JOY ENCODER VOL ENCODER

Ref. No.	Part No.	Description			Remark
C5005	1-136-155-00	FILM	0.015uF	5%	50V
C5006	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C5007	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C5020	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C5021	1-124-907-11	ELECT	10uF	20%	50V
C5031	1-126-956-91	ELECT	0.1uF	20%	50V
C5032	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5033	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C5034	1-163-038-91	CERAMIC CHIP	0.1uF		25V
		< CONNECTOR >			
CN501	1-774-344-11	PLUG, CONNECTOR (PC BOARD) 18P			
CN502	1-774-343-11	PLUG, CONNECTOR (PC BOARD) 16P			
		< DIODE >			
D351	8-719-304-74	LED	SEL4214R-D-TP (3CH LOGIC)		
D352	8-719-304-74	LED	SEL4214R-D-TP (PHANTOM)		
D353	8-719-304-74	LED	SEL4214R-D-TP (NORMAL)		
D503	8-719-014-73	DIODE	UZP-5.6BC-TP		
D510	8-719-046-39	LED	SEL5821A-TH15 (⏮)		
D511	8-719-046-39	LED	SEL5821A-TH15 (⏭)		
D512	8-719-046-39	LED	SEL5821A-TH15 (+)		
D513	8-719-046-39	LED	SEL5821A-TH15 (–)		
D514	8-719-812-44	LED	TLO124 (ENTER/NEXT)		
D515	8-719-812-44	LED	TLO124 (EFFECT ON/OFF)		
D516	8-719-046-43	LED	SEL5421E-TP15 (TUNER/BAND)		
D518	8-719-046-39	LED	SEL5821A-TH15 (TUNER)		
D519	8-719-046-39	LED	SEL5821A-TH15 (EFFECT)		
D520	8-719-057-62	LED	SEL1810D-TP3 (TIMER SET)		
D521	8-719-058-23	LED	HLMF-K405-2UP (REPEAT)		
D522	8-719-058-23	LED	HLMF-K405-2UP (CD MUSIC CLIP A)		
D523	8-719-058-23	LED	HLMF-K405-2UP (CD MUSIC CLIP C)		
D524	8-719-058-23	LED	HLMF-K405-2UP (CLIP ERASE)		
D525	8-719-058-23	LED	HLMF-K405-2UP (CLIP ERASE)		
D526	8-719-058-23	LED	HLMF-K405-2UP (1/ALL DISCS)		
D527	8-719-058-23	LED	HLMF-K405-2UP (1/ALL DISCS)		
D528	8-719-046-39	LED	SEL5821A-TH15 (TIMER)		
D529	8-719-046-39	LED	SEL5821A-TH15 (▬▸)		
D530	8-719-046-39	LED	SEL5821A-TH15 (◂▬)		
D531	8-719-046-42	LED	SEL5421E-TH8F (TIMER)		
D532	8-719-046-39	LED	SEL5821A-TH15 (GROOVE)		
D534	8-719-057-62	LED	SEL1810D-TP3 (TUNER MEMORY)		
D535	8-719-057-62	LED	SEL1810D-TP3 (TUNING MODE)		
D536	8-719-057-62	LED	SEL1810D-TP3 (CLOCK STEP)		
D537	8-719-057-62	LED	SEL1810D-TP3 (TIMER SELECT)		
D538	8-719-046-39	LED	SEL5821A-TH15 (CD)		
D539	8-719-058-23	LED	HLMF-K405-2UP (CD MUSIC CLIP B)		
D540	8-719-058-23	LED	HLMF-K405-2UP (CLIP PLAY)		
D541	8-719-058-23	LED	HLMF-K405-2UP (CLIP PLAY)		
D542	8-719-058-23	LED	HLMF-K405-2UP (EDIT)		
D543	8-719-058-23	LED	HLMF-K405-2UP (PLAY MODE)		
D544	8-719-058-23	LED	HLMF-K405-2UP (PLAY MODE)		

Ref. No.	Part No.	Description		Remark
D550	8-719-200-82	DIODE	11ES2	
D551	8-719-987-63	DIODE	1N4148M	
D552	8-719-987-63	DIODE	1N4148M	
D553	8-719-987-63	DIODE	1N4148M	
D554	8-719-987-63	DIODE	1N4148M	
D555	8-719-987-63	DIODE	1N4148M	
D556	8-719-010-48	DIODE	UZ-6.8BS (EXCEPT TH)	
D556	8-719-011-74	DIODE	UZ-6.8BS-TA (TH)	
D557	8-719-987-63	DIODE	1N4148M	
D5001	8-719-988-62	DIODE	1SS355	
D5002	8-719-988-62	DIODE	1SS355	
D5003	8-719-988-62	DIODE	1SS355	
D5004	8-719-988-62	DIODE	1SS355	
D5010	8-719-987-63	DIODE	1N4148M	
D5020	8-719-046-39	LED	SEL5821A-TH15 (CENTER MODE)	
D5021	8-719-046-39	LED	SEL5821A-TH15 (CENTER MODE)	
D5022	8-719-046-39	LED	SEL5821A-TH15 (CENTER MODE)	
D5023	8-719-046-39	LED	SEL5821A-TH15 (CENTER MODE)	
D5024	8-719-046-39	LED	SEL5821A-TH15 (CENTER MODE)	
		< FILTER >		
FL501	1-517-483-11	INDICATOR TUBE, FLUORESCENT		
		< IC >		
IC501	8-759-375-42	IC	ASD0205GF-015-3BA	
IC502	8-759-332-18	IC	GP1U27XB	
IC503	8-759-165-82	IC	PST600E-T	
IC504	8-759-372-64	IC	M66313FP-200C	
		< JUMPER RESISTOR >		

JR505	1-216-295-00	METAL CHIP	0	5%	1/10W
JR506	1-216-296-00	METAL CHIP	0	5%	1/8W
JR508	1-216-296-00	METAL CHIP	0	5%	1/8W
JR509	1-216-296-00	METAL CHIP	0	5%	1/8W
JR510	1-216-295-00	METAL CHIP	0	5%	1/10W
JR512	1-216-296-00	METAL CHIP	0	5%	1/8W
JR515	1-216-296-00	METAL CHIP	0	5%	1/8W
JR516	1-216-296-00	METAL CHIP	0	5%	1/8W
JR517	1-216-296-00	METAL CHIP	0	5%	1/8W
JR518	1-216-296-00	METAL CHIP	0	5%	1/8W
JR519	1-216-296-00	METAL CHIP	0	5%	1/8W
JR520	1-216-296-00	METAL CHIP	0	5%	1/8W
JR521	1-216-295-00	METAL CHIP	0	5%	1/10W
JR522	1-216-295-00	METAL CHIP	0	5%	1/10W
JR523	1-216-296-00	METAL CHIP	0	5%	1/8W
JR524	1-216-296-00	METAL CHIP	0	5%	1/8W
JR525	1-216-296-00	METAL CHIP	0	5%	1/8W
JR526	1-216-296-00	METAL CHIP	0	5%	1/8W
JR529	1-216-296-00	METAL CHIP	0	5%	1/8W
JR530	1-216-296-00	METAL CHIP	0	5%	1/8W
JR531	1-216-296-00	METAL CHIP	0	5%	1/8W

Ref. No.	Part No.	Description			Remark
JR532	1-216-296-00	METAL CHIP	0	5%	1/8W
JR533	1-216-296-00	METAL CHIP	0	5%	1/8W
JR534	1-216-296-00	METAL CHIP	0	5%	1/8W
JR535	1-216-296-00	METAL CHIP	0	5%	1/8W
JR536	1-216-295-00	METAL CHIP	0	5%	1/10W
JR537	1-216-295-00	METAL CHIP	0	5%	1/10W
JR538	1-216-295-00	METAL CHIP	0	5%	1/10W
JR539	1-216-296-00	METAL CHIP	0	5%	1/8W
JR540	1-216-296-00	METAL CHIP	0	5%	1/8W
JR541	1-216-296-00	METAL CHIP	0	5%	1/8W
JR543	1-216-296-00	METAL CHIP	0	5%	1/8W
JR544	1-216-296-00	METAL CHIP	0	5%	1/8W
JR546	1-216-295-00	METAL CHIP	0	5%	1/10W
JR547	1-216-296-00	METAL CHIP	0	5%	1/8W
JR552	1-216-296-00	METAL CHIP	0	5%	1/8W
JR553	1-216-296-00	METAL CHIP	0	5%	1/8W
JR554	1-216-296-00	METAL CHIP	0	5%	1/8W
JR555	1-216-296-00	METAL CHIP	0	5%	1/8W
JR558	1-216-296-00	METAL CHIP	0	5%	1/8W
JR559	1-216-296-00	METAL CHIP	0	5%	1/8W
JR560	1-216-296-00	METAL CHIP	0	5%	1/8W
JR561	1-216-296-00	METAL CHIP	0	5%	1/8W
JR562	1-216-296-00	METAL CHIP	0	5%	1/8W
JR563	1-216-295-00	METAL CHIP	0	5%	1/10W
JR564	1-216-295-00	METAL CHIP	0	5%	1/10W
JR565	1-216-296-00	METAL CHIP	0	5%	1/8W
JR566	1-216-296-00	METAL CHIP	0	5%	1/8W
JR567	1-216-296-00	METAL CHIP	0	5%	1/8W
JR568	1-216-295-00	METAL CHIP	0	5%	1/10W
JR569	1-216-296-00	METAL CHIP	0	5%	1/8W
JR570	1-216-296-00	METAL CHIP	0	5%	1/8W
JR572	1-216-296-00	METAL CHIP	0	5%	1/8W
JR573	1-216-296-00	METAL CHIP	0	5%	1/8W
JR574	1-216-295-00	METAL CHIP	0	5%	1/10W
JR575	1-216-296-00	METAL CHIP	0	5%	1/8W
JR576	1-216-295-00	METAL CHIP	0	5%	1/10W
JR577	1-216-295-00	METAL CHIP	0	5%	1/10W
JR580	1-216-296-00	METAL CHIP	0	5%	1/8W
JR581	1-216-296-00	METAL CHIP	0	5%	1/8W
JR582	1-216-295-00	METAL CHIP	0	5%	1/10W
JR583	1-216-295-00	METAL CHIP	0	5%	1/10W
JR584	1-216-296-00	METAL CHIP	0	5%	1/8W
JR585	1-216-296-00	METAL CHIP	0	5%	1/8W
JR586	1-216-296-00	METAL CHIP	0	5%	1/8W
JR587	1-216-296-00	METAL CHIP	0	5%	1/8W
JR588	1-216-296-00	METAL CHIP	0	5%	1/8W
JR589	1-216-296-00	METAL CHIP	0	5%	1/8W
JR590	1-216-296-00	METAL CHIP	0	5%	1/8W
JR591	1-216-296-00	METAL CHIP	0	5%	1/8W
JR592	1-216-296-00	METAL CHIP	0	5%	1/8W
JR594	1-216-296-00	METAL CHIP	0	5%	1/8W
JR595	1-216-295-00	METAL CHIP	0	5%	1/10W
JR596	1-216-295-00	METAL CHIP	0	5%	1/10W
JR597	1-216-296-00	METAL CHIP	0	5%	1/8W
JR600	1-216-295-00	METAL CHIP	0	5%	1/10W
JR601	1-216-296-00	METAL CHIP	0	5%	1/8W
JR602	1-216-296-00	METAL CHIP	0	5%	1/8W

< LEAD, JUMPER >

Ref. No.	Part No.	Description
* JW501	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW502	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW503	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW504	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW505	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW506	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW681	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)
* JW682	1-535-730-21	LEAD, JUMPER (OFC) (EXCEPT TH)

< COIL >

Ref. No.	Part No.	Description	
L501	1-410-509-11	INDUCTOR	10uH
L502	1-410-509-11	INDUCTOR	10uH

< TRANSISTOR >

Ref. No.	Part No.	Description	
Q501	8-729-620-05	TRANSISTOR	2SC2603-EF
Q502	8-729-620-05	TRANSISTOR	2SC2603-EF
Q503	8-729-421-22	TRANSISTOR	UN2211
Q504	8-729-421-22	TRANSISTOR	UN2211
Q505	8-729-421-22	TRANSISTOR	UN2211
Q506	8-729-421-22	TRANSISTOR	UN2211
Q507	8-729-661-98	TRANSISTOR	RT1P141SK-TP
Q531	8-729-118-01	TRANSISTOR	2SB1116
Q532	8-729-118-01	TRANSISTOR	2SB1116

< RESISTOR >

Ref. No.	Part No.	Description			Remark
R381	1-249-407-11	CARBON	150	5%	1/4W
R382	1-216-029-91	METAL CHIP	150	5%	1/10W
R385	1-249-407-11	CARBON	150	5%	1/4W
R501	1-249-401-11	CARBON	47	5%	1/4W
R502	1-249-403-11	CARBON	68	5%	1/4W
R503	1-249-403-11	CARBON	68	5%	1/4W
R504	1-247-807-31	CARBON	100	5%	1/4W
R505	1-249-407-11	CARBON	150	5%	1/4W
R506	1-249-409-11	CARBON	220	5%	1/4W
R507	1-249-411-11	CARBON	330	5%	1/4W
R508	1-249-411-11	CARBON	330	5%	1/4W
R509	1-249-413-11	CARBON	470	5%	1/4W
R510	1-249-415-11	CARBON	680	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-419-11	CARBON	1.5K	5%	1/4W
R513	1-249-421-11	CARBON	2.2K	5%	1/4W
R514	1-249-423-11	CARBON	3.3K	5%	1/4W
R515	1-249-427-11	CARBON	6.8K	5%	1/4W
R516	1-249-401-11	CARBON	47	5%	1/4W
R517	1-249-403-11	CARBON	68	5%	1/4W

PANEL JOY ENCODER VOL ENCODER

Ref. No.	Part No.	Description			Remark
R518	1-249-403-11	CARBON	68	5%	1/4W
R519	1-247-807-31	CARBON	100	5%	1/4W
R520	1-249-407-11	CARBON	150	5%	1/4W
R521	1-249-409-11	CARBON	220	5%	1/4W
R522	1-216-037-00	METAL CHIP	330	5%	1/10W
R523	1-216-037-00	METAL CHIP	330	5%	1/10W
R524	1-216-041-00	METAL CHIP	470	5%	1/10W
R525	1-216-045-00	METAL CHIP	680	5%	1/10W
R526	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R527	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R528	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R529	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R530	1-249-397-11	CARBON	22	5%	1/4W
R531	1-249-397-11	CARBON	22	5%	1/4W
R532	1-247-807-31	CARBON	100	5%	1/4W
R533	1-249-401-11	CARBON	47	5%	1/4W
R534	1-249-403-11	CARBON	68	5%	1/4W
R536	1-249-437-11	CARBON	47K	5%	1/4W
R537	1-249-433-11	CARBON	22K	5%	1/4W
R541	1-249-395-11	CARBON	15	5%	1/4W
R542	1-249-399-11	CARBON	33	5%	1/4W
R543	1-249-395-11	CARBON	15	5%	1/4W
R545	1-216-170-00	METAL GLAZE	68	5%	1/8W
R546	1-216-170-00	METAL GLAZE	68	5%	1/8W
R547	1-216-170-00	METAL GLAZE	68	5%	1/8W
R548	1-216-170-00	METAL GLAZE	68	5%	1/8W
R549	1-216-170-00	METAL GLAZE	68	5%	1/8W
R550	1-216-170-00	METAL GLAZE	68	5%	1/8W
R551	1-216-009-00	METAL CHIP	22	5%	1/10W
R552	1-216-009-00	METAL CHIP	22	5%	1/10W
R553	1-216-170-00	METAL GLAZE	68	5%	1/8W
R554	1-249-397-11	CARBON	22	5%	1/4W
R555	1-249-403-11	CARBON	68	5%	1/4W
R556	1-249-403-11	CARBON	68	5%	1/4W
R558	1-216-170-00	METAL GLAZE	68	5%	1/8W
R559	1-216-170-00	METAL GLAZE	68	5%	1/8W
R560	1-216-170-00	METAL GLAZE	68	5%	1/8W
R561	1-216-170-00	METAL GLAZE	68	5%	1/8W
R562	1-216-170-00	METAL GLAZE	68	5%	1/8W
R563	1-216-170-00	METAL GLAZE	68	5%	1/8W
R564	1-216-009-00	METAL CHIP	22	5%	1/10W
R565	1-216-170-00	METAL GLAZE	68	5%	1/8W
R566	1-216-009-00	METAL CHIP	22	5%	1/10W
R568	1-249-425-11	CARBON	4.7K	5%	1/4W
R569	1-249-429-11	CARBON	10K	5%	1/4W
R570	1-249-393-11	CARBON	10	5%	1/4W
R576	1-249-429-11	CARBON	10K	5%	1/4W
R577	1-247-807-31	CARBON	100	5%	1/4W
R578	1-247-807-31	CARBON	100	5%	1/4W
R579	1-247-807-31	CARBON	100	5%	1/4W
R580	1-247-807-31	CARBON	100	5%	1/4W
R581	1-216-025-91	METAL GLAZE	100	5%	1/10W
R582	1-216-025-91	METAL GLAZE	100	5%	1/10W
R583	1-247-807-31	CARBON	100	5%	1/4W
R584	1-247-807-31	CARBON	100	5%	1/4W
R585	1-247-807-31	CARBON	100	5%	1/4W
R586	1-247-807-31	CARBON	100	5%	1/4W
R587	1-247-807-31	CARBON	100	5%	1/4W
R589	1-247-807-31	CARBON	100	5%	1/4W
R592	1-247-807-31	CARBON	100	5%	1/4W
R593	1-247-807-31	CARBON	100	5%	1/4W
R594	1-216-174-00	METAL GLAZE	100	5%	1/8W
R596	1-247-807-31	CARBON	100	5%	1/4W
R597	1-247-807-31	CARBON	100	5%	1/4W
R598	1-247-807-31	CARBON	100	5%	1/4W
R599	1-247-807-31	CARBON	100	5%	1/4W
R5001	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5002	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5003	1-216-085-00	METAL CHIP	33K	5%	1/10W
R5004	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5009	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5010	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5011	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5012	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R5013	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5014	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5015	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5016	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R5017	1-249-429-11	CARBON	10K	5%	1/4W
R5018	1-249-429-11	CARBON	10K	5%	1/4W
R5019	1-249-421-11	CARBON	2.2K	5%	1/4W
R5020	1-249-429-11	CARBON	10K	5%	1/4W
R5021	1-249-429-11	CARBON	10K	5%	1/4W
R5022	1-249-429-11	CARBON	10K	5%	1/4W
R5023	1-249-429-11	CARBON	10K	5%	1/4W
R5026	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5027	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R5028	1-249-441-11	CARBON	100K	5%	1/4W
R5029	1-249-441-11	CARBON	100K	5%	1/4W
R5030	1-249-441-11	CARBON	100K	5%	1/4W
R5031	1-249-427-11	CARBON	6.8K	5%	1/4W (E3,EA,MY,SP,HK)
R5031	1-247-863-91	CARBON	22K	5%	1/4W (TH)
R5031	1-249-423-11	CARBON	3.3K	5%	1/4W (AUS)
R5031	1-249-415-11	CARBON	680	5%	1/4W (JE)
R5032	1-249-429-11	CARBON	10K	5%	1/4W (E2,AUS)
R5032	1-249-435-11	CARBON	33K	5%	1/4W (E3,EA,MY,SP,HK)
R5032	1-249-427-11	CARBON	6.8K	5%	1/4W (AR)

Ref. No.	Part No.	Description			Remark
R5032	1-247-863-91	CARBON	22K	5%	1/4W (TH)
R5032	1-249-431-11	CARBON	15K	5%	1/4W (JE)
R5033	1-249-441-11	CARBON	100K	5%	1/4W
R5038	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R5051	1-249-429-11	CARBON	10K	5%	1/4W
R5052	1-249-409-11	CARBON	220	5%	1/4W
R5053	1-249-409-11	CARBON	220	5%	1/4W
R5071	1-249-423-11	CARBON	3.3K	5%	1/4W (US,CND,AR)
R5071	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT US,CND,AR)
R5072	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5073	1-249-423-11	CARBON	3.3K	5%	1/4W (US,CND,AR)
R5073	1-249-429-11	CARBON	10K	5%	1/4W (EXCEPT US,CND,AR)
R5074	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5075	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5076	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R5077	1-249-429-11	CARBON	10K	5%	1/4W
R5078	1-249-429-11	CARBON	10K	5%	1/4W
R5079	1-249-437-11	CARBON	47K	5%	1/4W
R5080	1-247-807-31	CARBON	100	5%	1/4W
R5081	1-247-807-31	CARBON	100	5%	1/4W
R5082	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5083	1-216-073-00	METAL CHIP	10K	5%	1/10W
R5084	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< SWITCH >			
S329	1-554-303-21	SWITCH, TACTILE (DOLBY PROLOGIC)			
S501	1-554-303-21	SWITCH, TACTILE (SYSTEM POWER)			
S502	1-554-303-21	SWITCH, TACTILE (TIMER)			
S503	1-554-303-21	SWITCH, TACTILE (SLEEP)			
S505	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)			
S506	1-554-303-21	SWITCH, TACTILE (EFFECT ON/OFF)			
S507	1-554-303-21	SWITCH, TACTILE (MENU 1)			
S508	1-554-303-21	SWITCH, TACTILE (MENU 2)			
S509	1-554-303-21	SWITCH, TACTILE (MENU 3)			
S510	1-554-303-21	SWITCH, TACTILE (MENU 4)			
S511	1-554-303-21	SWITCH, TACTILE (MEMORY)			
S512	1-554-303-21	SWITCH, TACTILE (DSP)			
S513	1-554-303-21	SWITCH, TACTILE (FUNCTION)			
S514	1-554-303-21	SWITCH, TACTILE (DISPLAY)			
S515	1-554-303-21	SWITCH, TACTILE (TUNER BAND)			
S517	1-554-303-21	SWITCH, TACTILE (P FILE)			
S518	1-554-303-21	SWITCH, TACTILE (DBFB)			
S519	1-554-303-21	SWITCH, TACTILE (GLOOVE)			
S520	1-554-303-21	SWITCH, TACTILE (FREQUENCY, +)			
S521	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)			
S522	1-554-303-21	SWITCH, TACTILE (FREQUENCY, –)			

Ref. No.	Part No.	Description	Remark
S523	1-572-184-11	SWITCH, KEYBOARD (CD MUSIC CLIP C)	
S524	1-572-184-11	SWITCH, KEYBOARD (CD MUSIC CLIP B)	
S525	1-572-184-11	SWITCH, KEYBOARD (CD MUSIC CLIP A)	
S526	1-572-184-11	SWITCH, KEYBOARD (CLIP PLAY/TUNER MEMORY)	
S527	1-572-184-11	SWITCH, KEYBOARD (CLIP ERASE)	
S528	1-572-184-11	SWITCH, KEYBOARD (EDIT/TUNING MODE)	
S529	1-572-184-11	SWITCH, KEYBOARD (REPEAT TIMER SELECT)	
S530	1-572-184-11	SWITCH, KEYBOARD (PLAY MODE/TIMER SET)	
S531	1-572-184-11	SWITCH, KEYBOARD (1/ALL DISCS CLOCK SET)	
S551	1-473-480-11	ENCODER, ROTARY (MULTI JOG STATION)	
S552	1-467-869-11	ENCODER, ROTARY (VOLUME)(EXCEPT TH)	
S552	1-473-392-11	ENCODER, ROTARY (VOLUME)(TH)	
		< VIBRATOR >	
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHz)	
X502	1-567-098-41	VIBRATOR, CRYSTAL (32kHz)	
**********			
*	A-4389-757-A	POWER (A) BOARD, COMPLETE (US)	
*	A-4390-466-A	POWER (A) BOARD, COMPLETE (CND)	
*	A-4390-469-A	POWER (A) BOARD, COMPLETE (E,EA,HK,AR,AUS,JE)	
*	A-4390-472-A	POWER (A) BOARD, COMPLETE (MY)	
*	A-4390-475-A	POWER (A) BOARD, COMPLETE (SP)	
*	A-4390-767-A	POWER (A) BOARD, COMPLETE (TH)	
		**********	
		< CAPACITOR >	

C900	1-162-306-11	CERAMIC	0.01uF	30%	16V
C901	1-124-925-11	ELECT	2.2uF	20%	100V
C902	1-162-293-11	CERAMIC	820PF	10%	50V
C903	1-162-282-31	CERAMIC	100PF	10%	50V
C904	1-126-967-11	ELECT	47uF	20%	50V
C905	1-126-967-11	ELECT	47uF	20%	50V
C906	1-136-495-11	FILM	0.068uF	5%	50V
C907	1-136-495-11	FILM	0.068uF	5%	50V
C932	1-128-576-11	ELECT	100uF	20%	63V
C933	1-128-581-11	ELECT	4.7uF	20%	63V
C934	1-128-576-11	ELECT	100uF	20%	63V
C937	1-126-965-11	ELECT	22uF	20%	50V
C938	1-126-934-11	ELECT	220uF	20%	16V
C940	1-128-581-11	ELECT	4.7uF	20%	63V
C950	1-162-306-11	CERAMIC	0.01uF	30%	16V
C951	1-124-925-11	ELECT	2.2uF	20%	100V
C952	1-162-293-11	CERAMIC	820PF	10%	50V
C953	1-162-282-31	CERAMIC	100PF	10%	50V
C954	1-126-967-11	ELECT	47uF	20%	50V
C955	1-126-967-11	ELECT	47uF	20%	50V
C956	1-136-495-11	FILM	0.068uF	5%	50V
C957	1-136-495-11	FILM	0.068uF	5%	50V

POWER (A) POWER (B)

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
* CN902	1-569-503-11	PIN, CONNECTOR 8P				
		< DIODE >				
D903	8-719-987-63	DIODE 1N4148M				
D953	8-719-987-63	DIODE 1N4148M				
		< IC >				
IC901	8-749-921-68	IC STK-4231MK2 (US,CND)				
IC901	8-749-900-34	IC STK-4182MK2 (EXCEPT US,CND)				
		< TRANSISTOR >				
Q901	8-729-661-94	TRANSISTOR RT1N141SK-TP				
Q902	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
Q952	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA				
		< RESISTOR >				
R901	1-249-417-11	CARBON	1K	5%	1/4W	
R902	1-249-437-11	CARBON	47K	5%	1/4W	
R903	1-249-412-11	CARBON	390	5%	1/4W	(US,CND)
R903	1-249-413-11	CARBON	470	5%	1/4W	(EXCEPT US,CND)
R904	1-249-437-11	CARBON	47K	5%	1/4W	
R906	1-249-429-11	CARBON	10K	5%	1/4W	
R907	1-249-429-11	CARBON	10K	5%	1/4W	
R908	1-249-429-11	CARBON	10K	5%	1/4W	
R909	1-249-429-11	CARBON	10K	5%	1/4W	
R910	1-249-397-11	CARBON	22	5%	1/4W	
R911	1-249-397-11	CARBON	22	5%	1/4W	
R913	1-249-417-11	CARBON	1K	5%	1/4W	
R914	1-249-431-11	CARBON	15K	5%	1/4W	
R915	1-249-441-11	CARBON	100K	5%	1/4W	
⚠ R920	1-217-151-00	METAL PLATE	0.22			F
⚠ R932	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R933	1-249-421-11	CARBON	2.2K	5%	1/4W	
R934	1-249-421-11	CARBON	2.2K	5%	1/4W	
R935	1-249-421-11	CARBON	2.2K	5%	1/4W	
R936	1-249-421-11	CARBON	2.2K	5%	1/4W	
R937	1-249-437-11	CARBON	47K	5%	1/4W	
R938	1-249-441-11	CARBON	100K	5%	1/4W	
R939	1-249-433-11	CARBON	22K	5%	1/4W	
R940	1-249-433-11	CARBON	22K	5%	1/4W	
R941	1-249-429-11	CARBON	10K	5%	1/4W	
R942	1-249-413-11	CARBON	470	5%	1/4W	
⚠ R943	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R951	1-249-417-11	CARBON	1K	5%	1/4W	
R952	1-249-437-11	CARBON	47K	5%	1/4W	
R953	1-249-412-11	CARBON	390	5%	1/4W	(US,CND)
R953	1-249-413-11	CARBON	470	5%	1/4W	(EXCEPT US,CND)
R954	1-249-437-11	CARBON	47K	5%	1/4W	
R956	1-249-429-11	CARBON	10K	5%	1/4W	
R957	1-249-429-11	CARBON	10K	5%	1/4W	
R958	1-249-429-11	CARBON	10K	5%	1/4W	
R959	1-249-429-11	CARBON	10K	5%	1/4W	
R960	1-249-397-11	CARBON	22	5%	1/4W	
R961	1-249-397-11	CARBON	22	5%	1/4W	
R963	1-249-417-11	CARBON	1K	5%	1/4W	
R964	1-249-431-11	CARBON	15K	5%	1/4W	
R965	1-249-441-11	CARBON	100K	5%	1/4W	
⚠ R970	1-217-151-00	RES, METAL PLATE	0.22			F
⚠ R974	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F
R980	1-247-807-31	CARBON	100	5%	1/4W	
**********						
*	A-4389-758-A	POWER (B) BOARD, COMPLETE (US)				
*	A-4390-467-A	POWER (B) BOARD, COMPLETE (CND)				
*	A-4390-470-A	POWER (B) BOARD, COMPLETE				(E,EA,HK,AR,AUS,JE)
*	A-4390-473-A	POWER (B) BOARD, COMPLETE (MY)				
*	A-4390-476-A	POWER (B) BOARD, COMPLETE (SP)				
*	A-4390-768-A	POWER (B) BOARD, COMPLETE (TH)				
		**********				
		< CAPACITOR >				
C4001	1-124-925-11	ELECT	2.2uF	20%	100V	
C4002	1-162-286-31	CERAMIC	220PF	10%	50V	
C4003	1-162-282-31	CERAMIC	100PF	10%	50V	
C4004	1-126-964-11	ELECT	10uF	20%	50V	
C4005	1-126-964-11	ELECT	10uF	20%	50V	
C4006	1-136-165-00	FILM	0.1uF	5%	50V	
C4007	1-136-165-00	FILM	0.1uF	5%	50V	
C4010	1-126-967-11	ELECT	47uF	20%	50V	
C4011	1-126-965-11	ELECT	22uF	20%	50V	
C4012	1-104-664-11	ELECT	47uF	20%	25V	
C4013	1-162-306-11	CERAMIC	0.01uF	30%	16V	
C4051	1-124-925-11	ELECT	2.2uF	20%	100V	
C4052	1-162-286-31	CERAMIC	220PF	10%	50V	
C4053	1-162-282-31	CERAMIC	100PF	10%	50V	
C4054	1-126-964-11	ELECT	10uF	20%	50V	
C4055	1-126-964-11	ELECT	10uF	20%	50V	
C4056	1-136-165-00	FILM	0.1uF	5%	50V	
C4057	1-136-165-00	FILM	0.1uF	5%	50V	
		< CONNECTOR >				
* CN4002	1-569-503-11	PIN, CONNECTOR 8P				
		< DIODE >				
D4001	8-719-013-84	DIODE UZ-24BSD (US,CND)				
D4001	8-719-013-83	DIODE UZ-22BSD-TP				(EXCEPT US,CND,TH)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
D4001	8-719-013-85	DIODE UZ-22BSD-TA(TH)				
		< IC >				
IC4001	8-749-920-19	IC STK-4122-2-K				
		< TRANSISTOR >				
Q4001	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q4010	8-729-620-05	TRANSISTOR 2SC2603-EF				
Q4051	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R4001	1-249-417-11	CARBON	1K	5%	1/4W	
R4002	1-249-437-11	CARBON	47K	5%	1/4W	
R4003	1-249-413-11	CARBON	470	5%	1/4W	
R4004	1-249-437-11	CARBON	47K	5%	1/4W	
R4006	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4007	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4008	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4009	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4010	1-249-441-11	CARBON	100K	5%	1/4W	
R4011	1-249-441-11	CARBON	100K	5%	1/4W	
R4012	1-249-441-11	CARBON	100K	5%	1/4W	
R4013	1-249-397-11	CARBON	22	5%	1/4W	
R4014	1-249-397-11	CARBON	22	5%	1/4W	
⚠ R4020	1-217-151-00	METAL PLATE	0.22			F
⚠ R4021	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠ R4022	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R4023	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4024	1-249-429-11	CARBON	10K	5%	1/4W	
R4051	1-249-417-11	CARBON	1K	5%	1/4W	
R4052	1-249-437-11	CARBON	47K	5%	1/4W	
R4053	1-249-413-11	CARBON	470	5%	1/4W	
R4054	1-249-437-11	CARBON	47K	5%	1/4W	
R4056	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4057	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4058	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4059	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4060	1-249-441-11	CARBON	100K	5%	1/4W	
R4061	1-249-441-11	CARBON	100K	5%	1/4W	
R4062	1-249-441-11	CARBON	100K	5%	1/4W	
R4063	1-249-397-11	CARBON	22	5%	1/4W	
R4064	1-249-397-11	CARBON	22	5%	1/4W	
⚠ R4070	1-217-151-00	METAL PLATE	0.22			F
**********						
*	1-660-121-11	SENSOR BOARD				
		**********				
		< CAPACITOR >				
C651	1-164-159-11	CERAMIC	0.1uF		50V	

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
CN652	1-506-468-11	PIN, CONNECTOR 3P				
		< IC >				
IC651	8-759-947-34	IC LM35DZ				
**********						
*	1-660-122-11	SP BOARD				
		**********				
		< CONNECTOR >				
* CN6003	1-569-501-11	PIN, CONNECTOR 6P				
		< JACK >				
J901	1-774-785-11	JACK, PIN 1P (SPEAKER WOOFER)				
		< TERMINAL >				
TM902	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (FRONT SPEAKER L/R +/–) (CENTER SPEAKER +/–)				
**********						
	A-4303-547-A	TCB BOARD, COMPLETE (US,CND)				
	A-4303-499-A	TCB BOARD, COMPLETE (E3,EA,MY,SP,HK)				
	A-4303-526-A	TCB BOARD, COMPLETE (E2,AR,AUS)				
	A-4303-528-A	TCB BOARD, COMPLETE (JE)				
	A-4304-992-A	TCB BOARD, COMPLETE (TH)				
		**********				
		< CAPACITOR >				
C1	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	
C2	1-126-967-11	CAP, ELECT	47uF	20%	10V	
C3	1-163-038-91	CAP, CERAMIC	0.1uF		25V	
C5	1-163-031-11	CAP, CERAMIC	0.01uF		50V	
C6	1-163-038-91	CAP, CERAMIC	0.1uF		25V	
C7	1-101-004-00	CAP, CERAMIC	0.01uF			
C8	1-163-031-11	CAP, CERAMIC	0.01uF		50V	
C9	1-163-031-11	CAP, CERAMIC	0.01uF		50V	
C10	1-163-031-11	CAP, CERAMIC	0.01uF		50V	
C11	1-163-038-91	CAP, CERAMIC	0.1uF		25V (E3,EA,MY,SP,HK,JE)	
C11	1-216-295-91	METAL CHIP	0	5%	1/10W (US,CND,E2,AUS,AR,TH)	
C14	1-163-038-91	CAP, CERAMIC	0.1uF		25V (E3,EA,MY,SP,HK,JE)	
C15	1-136-162-00	CAP, METALIZED FILM			0.056uF (E3,EA,MY,SP,HK,JE)	
C16	1-163-038-91	CAP, CERAMIC	0.1uF		25V	
C17	1-163-031-11	CAP, CERAMIC	0.01uF		50V (E3,EA,MY,SP,HK,JE)	
C18	1-163-088-00	CERAMIC CHIP	5PF		50V (E3,EA,MY,SP,HK,JE)	
C21	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V	

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TCB

Ref. No.	Part No.	Description			Remark
C22	1-163-031-11	CAP, CERAMIC 0.01uF		50V	
C23	1-163-102-00	CAP, CHIP CERAMIC 24PF		5%	50V (TH)
C23	1-163-235-11	CAP, CHIP CERAMIC 22PF		5%	50V (EXCEPT TH)
C24	1-163-102-00	CAP, CHIP CERAMIC 24PF		5%	50V (TH)
C24	1-163-239-11	CAP, CHIP CERAMIC 33PF		5%	50V (EXCEPT TH)
C26	1-126-967-11	CAP, ELECT	47uF	20%	10V
C28	1-126-967-11	CAP, ELECT	47uF	20%	10V
C29	1-162-306-11	CAP, CERAMIC	0.01uF	30%	16V
C30	1-124-925-11	ELECT	2.2uF	20%	100V
C31	1-163-031-11	CAP, CERAMIC	0.01uF		50V
C32	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C33	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C34	1-163-091-00	CERAMIC CHIP	8PF		50V
C35	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C36	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C37	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C38	1-162-211-31	CERAMIC	33PF	5%	50V (E3,EA,MY,SP,HK,JE)
C39	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C40	1-163-031-11	CAP, CERAMIC	0.01uF		50V
C42	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C43	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C45	1-163-038-91	CAP, CERAMIC	0.1uF		25V
C46	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C47	1-126-967-11	CAP, ELECT	47uF	20%	10V
C49	1-124-902-00	ELECT	0.47uF	20%	50V
C50	1-124-903-11	CAP, ELECT	1.0uF	20%	50V
C51	1-124-903-11	CAP, ELECT	1.0uF	20%	50V
C52	1-126-964-11	CAP, ELECT	10uF	20%	50V
C53	1-126-964-11	CAP, ELECT	10uF	20%	50V
C54	1-126-157-11	ELECT	10uF	20%	16V
C55	1-126-157-11	ELECT	10uF	20%	16V
C56	1-126-157-11	ELECT	10uF	20%	16V
C57	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C58	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C59	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (EXCEPT US,CND)
C59	1-164-343-11	CAP, CERAMIC	0.056uF	10%	25V (US,CND)
C60	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V (EXCEPT US,CND)
C60	1-164-343-11	CAP, CERAMIC	0.056uF	10%	25V (US,CND)
C61	1-126-301-11	ELECT	1uF	20%	50V
C62	1-163-141-00	CERAMIC CHIP	0.001uF	5%	50V
C63	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C64	1-126-967-11	CAP, ELECT	47uF		
C66	1-126-162-11	ELECT	3.3uF	20%	50V
C67	1-126-933-11	CAP, ELECT	100uF	20%	10V
C68	1-162-306-11	CAP, CERAMIC	0.01uF	30%	16V
C71	1-162-306-11	CAP, CERAMIC	0.01uF	30%	16V
C72	1-126-967-11	CAP, ELECT	47uF	20%	10V
		< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC			
CF3	1-567-389-11	FILTER, CERAMIC			
		< CONNECTOR >			
CN1	1-774-292-11	HOUSING,CONNECTOR(PC BOARD)15P			
		< VARIABLE CAPACITOR >			
CV1	1-141-227-00	CAP, TRIMMER 20PF (E3,EA,MY,SP,HK,JE)			
CV2	1-141-227-00	CAP, TRIMMER 20PF (E3,EA,MY,SP,HK,JE)			
		< DIODE >			
D1	8-719-976-30	DIODE KV1560NT (E3,EA,MY,SP,HK,JE)			
D21	8-719-976-XX	DIODE UDZ-TE-17-5.1B			
D41	8-719-016-74	DIODE 1SS352-TPH3			
		< FRONT END >			
FE1	1-233-532-11	ENCAPSULATED COMPONENT (EXCEPT JE)			
FE1	1-693-251-11	FRONT END (JE)			
FE2	1-239-260-11	ENCAPSULATED COMPONENT (US,CND,E2,AR,TH,AUS)			
FE2	1-239-262-11	ENCAPSULATED COMPONENT (E3,EA,MY,SP,HK,JE)			
		< IC >			
IC21	8-759-288-54	IC LC72130			
IC41	8-759-176-03	IC LA1835			
		< IFT >			
IFT41	1-409-636-11	TRANSFORMER,IF(CERAMIC FILTER)			
		< JUMPER RESISTOR >			
JR1	1-216-295-00	METAL CHIP	0	5%	1/10W (US,CND,E2,AUS,AR,TH)
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W (US,CND,E2,AUS,AR,TH)
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W (US,CND,E2,AUS,AR,TH)
JR45	1-216-295-00	METAL CHIP	0	5%	1/10W
JR46	1-216-296-00	METAL CHIP	0	5%	1/8W
JR47	1-216-295-00	METAL CHIP	0	5%	1/10W
JR48	1-216-295-00	METAL CHIP	0	5%	1/10W
JR49	1-216-296-00	METAL CHIP	0	5%	1/8W
JR50	1-216-295-00	METAL CHIP	0	5%	1/10W (E3,EA,MY,SP,HK,JE)
JR51	1-216-295-00	METAL CHIP	0	5%	1/10W (E3,EA,MY,SP,HK,JE)

Ref. No.	Part No.	Description			Remark
JR52	1-216-295-00	METAL CHIP	0	5%	1/10W
JR53	1-216-296-00	METAL CHIP	0	5%	1/8W (E3,EA,MY,SP,HK,JE)
JR54	1-216-295-00	METAL CHIP	0	5%	1/10W
		< COIL >			
L1	1-410-521-11	MICRO INDUCTOR 100uH(E3,EA,MY,SP,HK,JE)			
L3	1-410-521-11	MICRO INDUCTOR 100uH			
L41	1-410-119-11	MICRO INDUCTOR (EL TYPE)			
		< FILTER >			
LPF41	1-239-845-11	FILTER, LOW PASS			
LPF42	1-239-845-11	FILTER, LOW PASS			
		< TRANSISTOR >			
Q1	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q2	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q3	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q4	8-729-201-27	TRANSISTOR	2SC2715Y-TE85L		
Q5	8-729-424-08	TRANSISTOR	MUN2111T1		
Q8	8-729-033-67	TRANSISTOR	2SK211-Y-TE85L		(E3,EA,MY,SP,HK,JE)
Q9	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6		(E3,EA,MY,SP,HK,JE)
Q10	8-729-216-22	TRANSISTOR	2SA812-T1-M5M6		(E3,EA,MY,SP,HK,JE)
Q12	8-729-421-22	TRANSISTOR	MUN2211T1		(E3,EA,MY,SP,HK,JE)
Q13	8-729-421-22	TRANSISTOR	MUN2211T1		(E3,EA,MY,SP,HK,JE)
Q14	8-729-421-22	TRANSISTOR	MUN2211T1		(E3,EA,MY,SP,HK,JE)
		< RESISTOR >			
R1	1-249-401-11	CARBON	47	5%	1/4W
R2	1-216-037-00	METAL CHIP	330	5%	1/10W
R3	1-216-037-00	METAL CHIP	330	5%	1/10W
R5	1-216-037-00	METAL CHIP	330	5%	1/10W
R6	1-216-081-00	METAL CHIP	22K	5%	1/10W
R7	1-216-037-00	METAL CHIP	330	5%	1/10W
R8	1-216-037-00	METAL CHIP	330	5%	1/10W
R9	1-216-081-00	METAL CHIP	22K	5%	1/10W
R10	1-216-037-00	METAL CHIP	330	5%	1/10W
R11	1-216-081-00	METAL CHIP	22K	5%	1/10W
R12	1-216-037-00	METAL CHIP	330	5%	1/10W
R13	1-216-037-00	METAL CHIP	330	5%	1/10W
R14	1-216-081-00	METAL CHIP	22K	5%	1/10W
R18	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E3,EA,MY,SP,HK,JE)
R19	1-216-073-00	METAL CHIP	10K	5%	1/10W (E3,EA,MY,SP,HK,JE)
R20	1-216-121-91	RES, CHIP	1.0M	5%	1/10W (E3,EA,MY,SP,HK,JE)

Ref. No.	Part No.	Description			Remark
R21	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R22	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R23	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R24	1-216-025-91	RES, CHIP	100	5%	1/10W
R25	1-249-417-11	CARBON	1K	5%	1/4W
R26	1-249-437-11	CARBON	47K	5%	1/4W
R27	1-249-429-11	CARBON	10K	5%	1/4W
R28	1-249-417-11	CARBON	1K	5%	1/4W
R29	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R30	1-216-186-00	RES, CHIP	330	5%	1/8W
R31	1-216-025-91	RES, CHIP	100	5%	1/10W
R32	1-249-425-11	CARBON	4.7K	5%	1/4W
R33	1-249-425-11	CARBON	4.7K	5%	1/4W
R34	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R35	1-216-214-00	RES, CHIP	4.7K	5%	1/8W
R36	1-216-025-91	RES, CHIP	100	5%	1/10W
R37	1-216-073-00	METAL CHIP	10K	5%	1/10W
R38	1-216-089-91	RES, CHIP	47K	5%	1/10W
R39	1-249-429-11	CARBON	10K	5%	1/4W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-042-00	METAL CHIP	510	5%	1/10W
R44	1-216-021-00	METAL CHIP	68	5%	1/10W
R45	1-249-423-11	CARBON	3.3K	5%	1/4W
R46	1-216-073-00	METAL CHIP	10K	5%	1/10W
R47	1-216-097-91	RES, CHIP	100K	5%	1/10W
R48	1-249-417-11	CARBON	1K	5%	1/4W
R49	1-216-049-91	RES, CHIP	1.0K	5%	1/10W
R50	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R51	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R53	1-249-429-11	CARBON	10K	5%	1/4W
R54	1-249-399-11	CARBON	33	5%	1/4W (E3,EA,MY,SP,HK,JE)
R55	1-216-162-00	RES, CHIP	33	5%	1/8W
R56	1-249-393-11	CARBON	10	5%	1/4W
R91	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (E3,EA,MY,SP,HK,JE)
R92	1-216-073-00	METAL CHIP	10K	5%	1/10W (E3,EA,MY,SP,HK,JE)
R93	1-216-073-00	METAL CHIP	10K	5%	1/10W (E3,EA,MY,SP,HK,JE)
R94	1-216-073-00	METAL CHIP	10K	5%	1/10W (E3,EA,MY,SP,HK,JE)
		< VARIABLE RESISTOR >			
RV41	1-238-601-11	RES, ADJ, CARBON 22K (MW TUNING LEVEL)			
RV42	1-238-600-11	RES, ADJ, CARBON 10K (FM TUNING LEVEL)			
		< TRANSFORMER >			
T1	1-409-505-11	COIL (ANT. SW3) (E3,EA,MY,SP,HK,JE)			
T2	1-402-960-11	COIL (OSC SW3) (E3,EA,MY,SP,HK,JE)			

TCB | TRANS (A) | TRANSFORMER SECONDARY | VOLTAGE SW

Ref. No.	Part No.	Description	Remark
		< TERMINAL >	
TM1	1-537-238-21	TERMINAL BOARD (ANTENNA)	
		< VIBRATOR >	
X21	1-567-713-11	VIBRATOR, CRYSTAL (4.5MHz) (TH)	
X21	1-760-549-11	VIBRATOR, CRYSTAL (4.5MHz) (EXCEPT TH)	
X41	1-760-220-11	FILTER, CERAMIC (10.7MHz)	
X42	1-527-981-00	FILTER, CERAMIC (450kHz)	
X43	1-577-075-11	OSCILLATOR, CERAMIC (19kHz)	
**********			
*	1-658-764-11	TRANS (A) BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< CONNECTOR >	
CN851	1-564-321-00	PIN, CONNECTOR 2P	
		< LEAD >	
CP851	1-775-377-61	LEAD (WITH CONNECTOR) (US,CND)	
		< FUSE >	
⚠ F851	1-532-388-51	FUSE, TIME LAG (T2AL) (TH,AUS)	
⚠ F851	1-532-504-51	FUSE, TIME LAG (T4AL)	(EXCEPT US,CND,TH, AUS)
⚠ F851	1-576-109-11	FUSE (5A/125V) (CND)	
⚠ F851	1-576-110-11	FUSE (6A/125V) (US)	
⚠ F852	1-532-388-51	FUSE, TIME LAG (T2AL)(E,EA,MY,SP,HK,AR,JE)	
		< RESISTOR >	
⚠ R851	1-202-725-00	SOLID 3.3M 10% 1/2W	(US,CND)
**********			
*	1-660-119-11	TRANSFORMER SECONDARY BOARD **********	
	1-533-293-11	FUSE HOLDER	
		< FUSE >	
⚠ F853	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F853	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F854	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F854	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F855	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F855	1-532-781-41	FUSE, MICRO (SECONDARY) (US)	
⚠ F855	1-576-107-11	FUSE (3.15A/250V) (CND)	
⚠ F856	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F856	1-576-107-11	FUSE (3.15A/250V) (CND)	
		< RESISTOR >	
⚠ R898	1-213-036-61	FUSIBLE 1 5% 1W F	(US)
**********			
*	1-659-506-11	VOLTAGE SW BOARD (E,EA,MY,SP,HK,AR,JE) **********	
	1-533-293-11	FUSE HOLDER	
		< SWITCH >	
⚠ S851	1-572-367-11	SWITCH, VOLTAGE SELECTER)	(E,EA,MY,SP,HK,AR,JE)
**********			
		MISCELLANEOUS **********	
8	1-533-293-11	FUSE HOLDER	
⚠ 21	1-574-805-11	CORD, POWER (EA,MY,SP,HK,AR)	
⚠ 21	1-575-653-11	CORD, POWER (E,JE)	
⚠ 21	1-575-975-11	CORD, POWER (US,CND)	
⚠ 21	1-690-608-11	CORD, POWER (AUS)	
⚠ 21	1-751-326-31	CORD, POWER (TH)	
⚠ 22	1-569-007-11	ADAPTER, CONVERSION 2P (E3,JE)	
⚠ 22	1-569-008-11	ADAPTER, CONVERSION 2P (EA,MY,SP)	
⚠ 22	1-770-019-11	ADAPTOR, CONVERSION PLUG 3P (HK)	
⚠ F851	1-532-388-51	FUSE, TIME LAG (T2AL) (TH,AUS)	
⚠ F851	1-532-504-51	FUSE, TIME LAG (T4AL)	(EXCEPT US,CND,TH,AUS)
⚠ F851	1-576-109-11	FUSE (5A/125V) (CND)	
⚠ F851	1-576-110-11	FUSE (6A/125V) (US)	
⚠ F852	1-532-388-51	FUSE, TIME LAG (T2AL) (E,EA,MY,SP,HK,AR,JE)	
⚠ F853	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F853	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F854	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F854	1-576-107-11	FUSE (3.15A/250V) (US,CND)	
⚠ F855	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F855	1-532-781-41	FUSE, MICRO (3.15A) (US)	
⚠ F855	1-576-107-11	FUSE (3.15A/250V) (CND)	
⚠ F856	1-532-465-51	FUSE, TIME LAG (T3.15AL)	(EXCEPT US,CND)
⚠ F856	1-576-107-11	FUSE (3.15A/250V) (CND)	
M601	1-698-651-11	FAN, DC (TH)	
M601	1-698-792-11	FAN, DC (EXCEPT TH)	
⚠ S851	1-572-367-11	SWITCH, VOLTAGE SELECTER)	(E,EA,MY,SP,HK,AR,JE)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠ T801	1-429-533-11	TRANSFORMER, POWER (US,CND)	
⚠ T801	1-429-534-11	TRANSFORMER, POWER (EXCEPT US,CND)	

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ACCESSORIES & PACKING MATERIALS
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	1-776-017-11	CORD (WITH CONNECTOR)(17P)	(SYSTEM CONTROL 1)
	1-776-018-11	CODE (WITH CONNECTOR)(7P)	(SYSTEM CONTROL 2)

****

****
HARDWARE LIST
****

#1	7-682-548-04	SCREW +BVTT 3X8 (S)
#2	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#5	7-685-872-01	SCREW +BVTT 3X6 (S)

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Home A&V Products Div.

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